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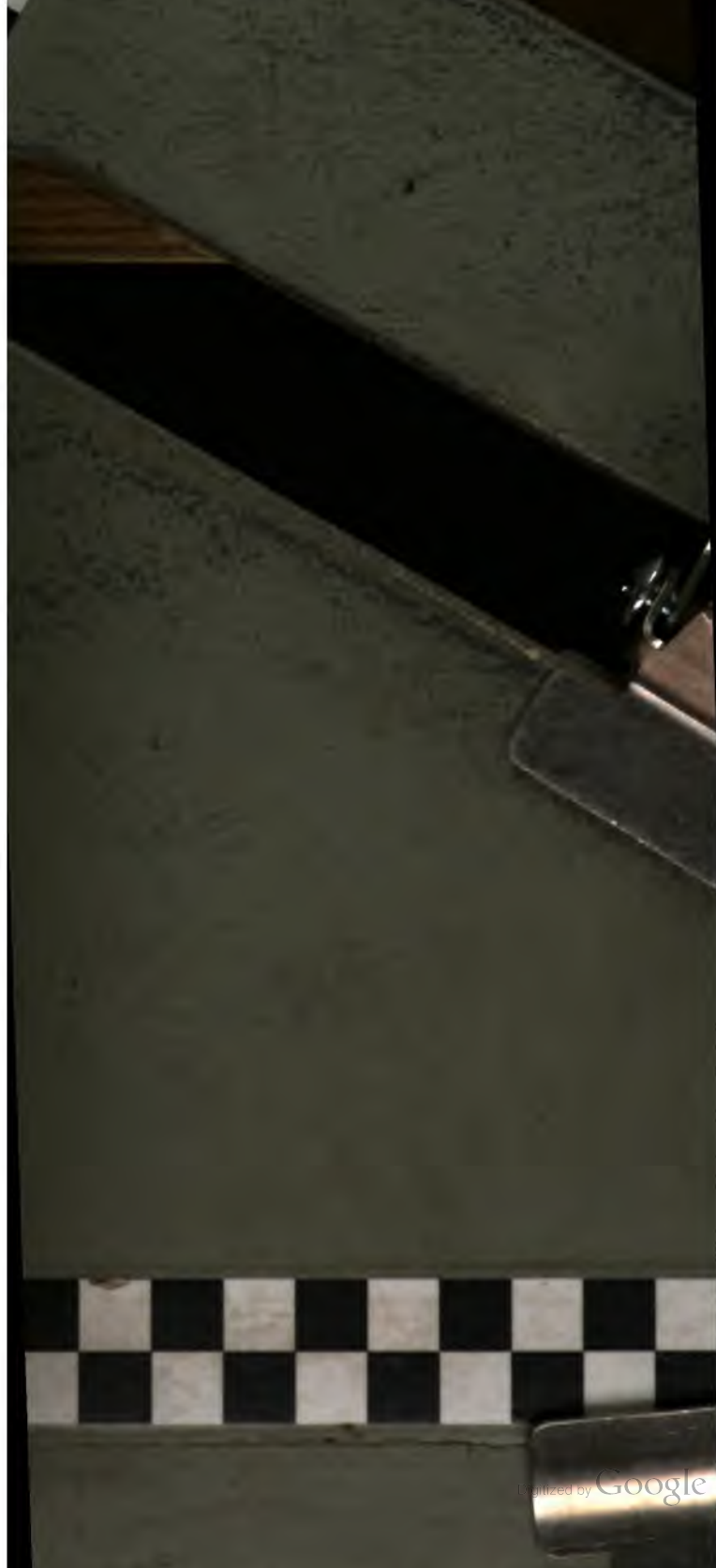
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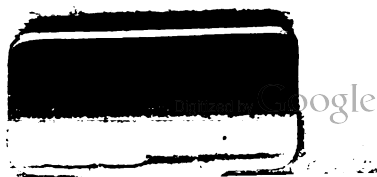
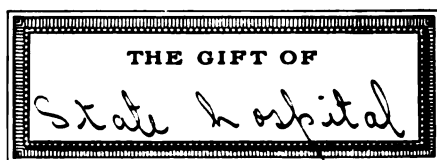
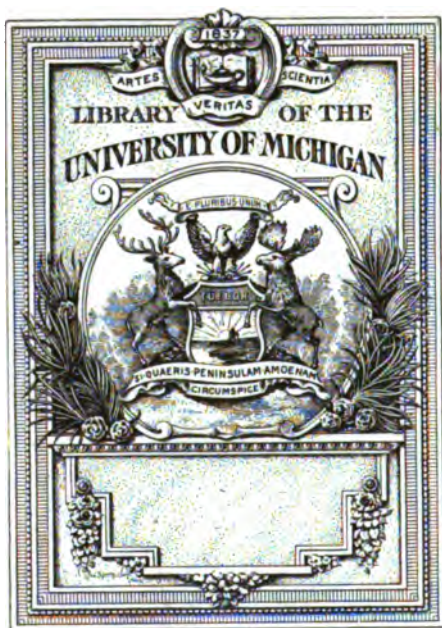
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10267 TWENTY-SIXTH ANNUAL REPORT

OF

THE TRUSTEES

OF THE

STATE LUNATIC HOSPITAL

AT NORTHAMPTON,

FOR THE YEAR ENDING SEPTEMBER 30, 1881.

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BOSTON:

Band, Aberp, & Co., Printers to the Commonwealth,

117 FRANKLIN STREET.

1882.



## OFFICERS OF THE NORTHAMPTON LUNATIC HOSPITAL.

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### TRUSTEES.

LYMAN D. JAMES, Esq. . . . .	WILLIAMSBURG.
HON. WILLIAM M. GAYLORD . . . . .	NORTHAMPTON.
SILAS M. SMITH, Esq. . . . .	NORTHAMPTON.
ADAMS C. DEANE, M.D. . . . .	GREENFIELD.
HENRY W. TAFT, Esq. . . . .	PITTSFIELD.

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### RESIDENT OFFICERS.

PLINY EARLE, A.M., M.D. . . . .	SUPERINTENDENT.
EDWARD B. NIMS, M.D. . . . .	FIRST ASSISTANT PHYSICIAN.
DANIEL PICKARD, M.D. . . . .	SECOND ASSISTANT PHYSICIAN.
WALTER B. WELTON . . . . .	CLERK.
ASA WRIGHT . . . . .	FARMER.
DANFORD MORSE . . . . .	ENGINEER.

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### TREASURER.

PLINY EARLE . . . . .	NORTHAMPTON.
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OFFICE AT THE HOSPITAL.

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### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN . . . . .	MALE SUPERVISOR.
LUCY A. GILBERT . . . . .	FEMALE SUPERVISOR.
F. JOSEPHUS RICE . . . . .	STEWARD.
MARY E. WARD . . . . .	SEAMSTRESS.
ELLEN R. SAWYER . . . . .	LAUNDRESS.
CHARLES ZIEHLKÉ . . . . .	BAKER.



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# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To his Excellency the Governor of the Commonwealth and the Honorable Council.*

AGREEABLY to the provisions of the statute law, the undersigned, Trustees of the Northampton Lunatic Hospital, lay before you the results of another official year, making the Twenty-sixth Annual Report of the institution with the general direction of which they are intrusted.

A brief abstract of the results of the operations of the hospital in its medical department is as follows:—

At the beginning of the official year, Oct. 1, 1880, the number of patients in the house was, of men, 223; women, 223; total 446,—the numbers of the two sexes being, by a noteworthy coincidence, equal. During the official year the number admitted was, of men, 57, and of women, 66; making a total of 123. The aggregate of these numbers, representing the whole number under care in the course of the year, is, of men, 280; of women, 289; total, 569. The number discharged from the hospital during the same period was, of men, 51, and of women, 55; a total of 106. Twenty-six patients were removed by death. Of these, 16 were men and 10 women.

The number of patients remaining in the house at the end of the official year, Sept. 30, 1881, was 464; of whom 220 were men and 234 women. The daily average number for the year was a fraction less than 452; the largest number on any day was 466, on four days in August; and the least number 439, on five days in January and February.

## 8 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

The results of treatment, as shown by the recorded mental condition of the 80 patients who left the hospital, are as follows: recovered, 20; much improved, 13; improved, 30; unimproved, 16; not insane, 1.

In our report for the official year 1879-80, it was shown that, although for many years the hospital was dependent upon the other similar State institutions of the Commonwealth for a very considerable part of the patients admitted, the time had at length arrived at which there was a release from that dependence, and our numbers were kept up by direct commitments from the four western counties of the State. Judging from the experience of the official year just closed, the hospital will in future not only be kept full by these direct admissions, but the time is not far distant at which it must be enlarged, or find relief from overcrowding by the transfer of its surplus patients to some other receptacle.

The official year began Oct. 1, 1880, with 446 patients in the house; it closed with 463; an increase of 17 in the course of the year. The increase would have been still greater if no inmates had been discharged excepting such as were in condition to resume their duties in society, or to be cared for among their relatives, friends, or guardians. In the course of the last winter a department for chronic insane was opened in the almshouse of Springfield, to which nineteen of the wards of that city who were here, but who had ceased to require hospital treatment, were removed. Having been assured that physically they would be made as comfortable as they were here, and that they would be under the surveillance of the State authorities, we consented to their removal. To the excess of patients (17) now in the house over the number one year ago, the number (19) thus removed to another receptacle should be added, in order to obtain the true increase within the year of insane persons in this part of the State who require the care of the public institutions.

The most important, as well as the most expensive, improvement of the hospital in the course of the year is the introduction of a steam fire-pump, as an additional precaution against destruction by conflagration. The building was already supplied with six portable fire-extinguishers; it also

had four hydrants on the outside, and sixteen within, directly connected with the town water-pipes, which are fed from a pond, the surface of which is about thirty feet higher than the top of the hospital cupola. There is not a patient's room in the house which cannot be reached by the nozzle of the hose attached to some one of the interior hydrants.

The pump is one of Knowles's patent, with a four-way hose connection. It has a sixteen-inch steam-cylinder, and a seven-inch water-cylinder, with twelve-inch stroke, throwing  $1\frac{9}{10}$  gallons at each stroke, and able to bear a rapidity of two hundred and fifty strokes per minute. To supply the old hydrants, there were 843 feet of four-inch, and 208 feet of two-and-a-half and two-inch iron pipe. Four double out-of-door and six in-door hydrants, with 789 feet of five-inch, 754 feet of four-inch, and 37 feet of three-inch pipe, have been added. The old and the new system of pipes are connected, so that all of the hydrants, both new and old, can be used either with the pressure from the town water-works or with that of the pump.

The ice-house heretofore used is on Mill River, near the north-east corner of the farm, distant very nearly a mile from the hospital by the nearest route suitable for loaded teams; and the water of the river has recently been rendered more impure by the opening into it of sewers. For the purpose of obtaining very pure ice, an artificial pond has recently been made by Wright and Rust, on a small stream about a mile south-west of the hospital. Under these circumstances, and for these reasons, we caused a new ice-house to be erected in the autumn of 1880. It is of the same size as the old one, and stands quite near the hospital. The ice stored in it came from Wright and Rust's pond, and is used only for drinking and table purposes. The house at Mill River was filled, and the ice is used in the refrigerators.

As before mentioned, the north-easterly part of the farm can be reached by teams only by a round-about road. The land in that section has recently been brought under cultivation, and the frequency of passing between it and the buildings, already not inconsiderable for the transportation of ice, has thus been largely increased; consequently a shorter route is much to be desired. By grading a precipitous hill on the southerly bank of the river, a road saving nearly

## 10 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

half the distance can readily be made. It was decided, in the early part of the official year, that this should be done, and a contract for the work was made with Mr. Samuel Parsons. The earth removed in grading is used to fill the gulch washed out by the freshet which carried away the ice-house nearly three years ago. The severity of the winter was such as to prevent the prosecution of the work; but it is hoped that it will be finished before the close of the current calendar year.

The grading of the eastern extremity of the lot on the south side of the county road was mentioned in our last year's report. After it was finished, and late in the calendar year, the lot was enclosed upon that side by an iron fence nearly eight hundred feet in length.

Concrete walks to the extent of several hundred yards have been laid on the west side of the hospital.

According to our estimate, the actual average current expense for each patient during the official year was \$169.04, or \$3.242 per week.

During the same period our charges for board were—

For State patients . . . . .	\$30,676 28
town patients . . . . .	30,055 16
private patients . . . . .	15,516 88
Total . . . . .	<u>\$82,247 82</u>

The Treasurer has presented his Annual Report, and it is herewith transmitted for your examination. It contains the accustomed details, under specific heads, of all money re-

### CORRECTIONS.

The figures near the bottom of page 10 should be as follows :

Reserve fund,	\$10,000 00
Cash assets available for future use,	26,597 10
Total,	<u>\$36,597 10</u>
And liabilities, (bills payable)	5,711 05
Balance in favor of the hospital,	<u>\$30,886 05</u>

There are errors of the same amount, (\$84.16) on page 31, as follows :

22d line from bottom, instead of \$30,970.21, read \$30,886 05; and instead of \$30,668.17, read \$30 584.01.

6th line from bottom, instead of \$30,668.17, read \$30,584 01.

3d line from bottom, instead of \$263,986.75, read \$263,852.59.

together with all the productions of the farm which have been garnered for future use.

No change has taken place in the staff of principal resident officers. Of the subordinate officers of one year ago, J. E. Shufelt, supervisor, and Nell Russell, laundress, have left. They had both performed their duties satisfactorily, the former during the long period of more than sixteen years, and the latter more than four years.

Our regular meetings have been held, as heretofore, at the Hospital; and, as the result of inspection at these and at other times, we are of the opinion that the institution was never in a better condition, or more completely adapted to its work, than it is at the present time.

L. D. JAMES, *Chairman*,  
WM. M. GAYLORD,  
S. M. SMITH,  
A. C. DEANE,  
HENRY W. TAFT.

NORTHAMPTON, Oct. 6, 1881.

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## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1881.

Superintendent and Physician . . . . .	per year	\$2,500 00
First Assistant Physician . . . . .	"	1,500 00
Second Assistant Physician . . . . .	"	900 00
Treasurer . . . . .	"	300 00
Treasurer, for clerk-hire and paid to a clerk . . . . .	"	200 00
Clerk . . . . .	"	900 00
Farmer . . . . .	"	900 00
Engineer . . . . .	"	900 00
Assistant clerk . . . . .	per month	30 00
Supervisor (male) . . . . .	"	35 00
Supervisor (female) . . . . .	"	25 00
Assistant supervisor (female) . . . . .	"	20 00
Seamstress . . . . .	"	20 00
Assistant seamstress . . . . .	"	13 00
Laundress . . . . .	"	16 00
Assistant laundress . . . . .	"	16 00
Baker . . . . .	"	46 00
Assistant baker . . . . .	"	20 00
Steward . . . . .	"	54 17
Attendants (male) (6) . . . . .	"	30 00
Attendant (male) (1) . . . . .	"	28 00
Attendants (male) (2) . . . . .	"	25 00
Attendants (male) (3) . . . . .	"	21 00
Attendants (female) (13) . . . . .	"	16 00
Attendant (female) (1) . . . . .	"	15 00
Attendant (female) (1) . . . . .	"	13 00
Housework, centre (female) (2) . . . . .	"	15 00
Cook (female) (1) . . . . .	"	16 00
Assistant cook (male) (1) . . . . .	"	20 00
Assistant cooks (female) (2) . . . . .	"	14 00
Assistant cook (female) (1) . . . . .	"	13 00
Farmer's dining-room (female) (1) . . . . .	"	14 00
Watchman . . . . .	"	30 00
Carpenter . . . . .	per day	2 25
Carpenter . . . . .	"	1 50
Painter . . . . .	per month	50 00
Assistant engineer . . . . .	"	32 00
Night engineer and florist in summer . . . . .	"	28 00

Coachman . . . . .	per month	\$25 00
Farm-hand (1) . . . . .	"	32 00
Farm-hand (1) . . . . .	"	28 00
Farm-hands (3) . . . . .	"	25 00
Farm-hand (1) . . . . .	"	23 00
Farm-hand (1) . . . . .	"	21 00

In the warm season we generally hire one or two farm-hands by the day.

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1881.

Live-stock on the farm . . . . .	\$5,194 00
Produce of the farm on hand . . . . .	8,480 00
Carriages and agricultural implements . . . . .	3,997 00
Machinery and mechanical fixtures . . . . .	9,579 00
Beds and bedding in inmates' department . . . . .	11,650 25
Other furniture in inmates' department . . . . .	4,816 83
Personal property of State in Superintendent's department . . . . .	9,342 87
Ready-made clothing . . . . .	3,144 71
Dry-goods . . . . .	2,022 68
Provisions and groceries . . . . .	3,452 06
Drugs and medicines . . . . .	500 00
Fuel . . . . .	6,284 75
Library . . . . .	800 00
<b>Total . . . . .</b>	<b>\$69,813 65</b>



# 14 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

THE financial condition of the hospital, for the official year 1880-81, is set forth in the following statement:—

### ASSETS.

Three hundred and forty acres of land . . . . .	\$10,000 00	
Hospital building . . . . .	250,000 00	
Two dwelling-houses . . . . .	4,000 00	
Two barns . . . . .	5,500 00	
Stable . . . . .	2,000 00	
Other buildings . . . . .	0,500 00	
	<hr/>	\$308,000 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' Report . . . . .	00,813 65	
Reserve fund . . . . .	10,000 00	
	<hr/>	\$387,813 65

### RECEIPTS.

Cash on hand Sept. 30, 1880 . . . . .	\$5,280 54	
Received from the State Treasurer . . . . .	31,218 80	
from towns . . . . .	88,370 78	
from individuals . . . . .	15,677 30	
from sales . . . . .	2,005 88	
from interest . . . . .	732 25	
	<hr/>	\$93,360 64

### PAYMENTS.

1st. Salaries, wages, and labor . . . . .	\$25,431 52	
2d. Provisions and supplies, viz :—		
Meats of all kinds . . . . .	\$5,468 01	
Fish of all kinds . . . . .	1,411 20	
Fruit and vegetables . . . . .	956 02	
Flour and bread . . . . .	4,865 60	
Grain and meal for table . . . . .	285 38	
Grain and meal for stock . . . . .	1,934 38	
	<hr/>	
<i>Amounts carried forward</i> . . . . .	\$14,921 58	\$25,431 52

<i>Amounts brought forward</i>	\$14,921 58	\$25,431 52
Tea, coffee, and chocolate	732 89	
Sugar and molasses	2,410 53	
Butter and cheese	3,703 69	
Salt and other groceries	3,793 65	
	<hr/>	25,631 34
3d. Clothing		8,502 25
4th. Fuel and lights		8,118 20
5th. Medicines and medical supplies		1,539 87
6th. Furniture, beds, and bedding		2,000 08
7th. Transportation and travelling expenses		378 87
8th. Ordinary construction and repairs		3,032 91
9th. Extraordinary construction and repairs		9,291 03
10th. Miscellaneous expenses, including—		
1. Farm stock	\$1,597 58	
2. Farm supplies	4,158 63	
3. Water	750 00	
4. Minor expenses	644 92	
5. Contingencies	1,115 00	
	<hr/>	8,260 13
		<hr/>
		\$88,155 26

## LIABILITIES.

Salaries and wages due Oct. 1, 1881	\$3,521 85
Miscellaneous bills due	2,180 70
	<hr/>
	\$5,711 05
Due the institution for board Oct. 1, 1881—	
from State	\$7,058 72
towns	10,308 82
individuals	8,424 18
Due from Treasurer Sept. 30, 1881	5,205 38
	<hr/>
	26,597 10
	<hr/>
	\$20,886 05

## SUMMARY.

Total receipts	\$93,360 64
Total payments	88,155 26
	<hr/>
	\$5,205 38
Total liabilities	\$5,711 05
Total debts due the institution	26,597 10
Total expenditures	\$88,155 26
Dividing this sum by 451.79, the average number of patients, we have the average expenditure per patient	\$206.046
And the average weekly expenditure, per patient, of	8.905

# 16 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

Deducting from the total expenditures . . . . .	\$88,155 26
The extraordinary expenses . . . . .	0,291 03

We have the current expenses . . . . .	<u>\$78,864 28</u>
----------------------------------------	--------------------

Dividing \$78,864.23 by 451.70, the average number of patients, we have the average expenditure per patient . . . . .	\$174.550
Making the average weekly expenditure per patient . . . . .	3.347

Deducting from the current cash expenditures . . . . .	\$78,864 23
The increase of personal assets . . . . .	2,493 31

We have the apparent necessary cost for the year . . . . .	<u>\$76,370 02</u>
------------------------------------------------------------	--------------------

Dividing \$76,370.02 by 451.70, the average number of patients, we have, as the annual cost of each patient . . . . .	\$169 04
Making the average weekly cost of each patient . . . . .	3.242

PLINY EARLE, *Treasurer.*

NORTHAMPTON, October 6, 1881.

We have performed our duty as auditors of the Treasurer's accounts, and find that there is a proper voucher for every entry.

WM. M. GAYLORD,  
ADAMS C. DEANE.

OCTOBER 6, 1881.

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

IN entering upon an exposition of the operations of the hospital for another year, I perceive no better method of introducing the subject than by a presentation of the usual table, which embodies the leading results of those operations.

### 1. General Statistics, 1880-81.

	Males.	Females.	Totals.
Patients in Hospital Oct. 1, 1880 . . . . .	223	223	446
Admitted within the year . . . . .	57	60	123
Whole number of <i>cases</i> within the year . . . . .	280	280	560
Discharged within the year . . . . .	51	55	106
Viz., as recovered . . . . .	7	13	20
as much improved . . . . .	6	7	13
as improved . . . . .	15	15	30
as unimproved . . . . .	0	10	16
as not insane . . . . .	1	—	1
Deaths . . . . .	16	10	26
Patients remaining Sept. 30, 1881 . . . . .	229	234	463
Viz., supported as State patients . . . . .	95	86	181
as town patients . . . . .	104	120	224
as private patients . . . . .	30	28	58
Number of different <i>persons</i> within the year, . . . . .	278	283	561
admitted . . . . .	57	63	120
recovered . . . . .	7	13	20
Daily average number of patients . . . . .	228.01	223.78	451.79

The number of *persons* admitted in the course of the year was one hundred and twenty, of whom fifty-seven were men and sixty-three women; but three of these persons, all of them women, were admitted twice each. As every person is considered a new *patient*, or *case*, at every admission, those *three* women counted as *six* patients or cases. Consequently the number of *patients* admitted was one hundred and twenty-three, or three more than that of *persons*.

## 18 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

Only one of the three women admitted twice each was discharged recovered on the first of those admissions. She returned to the hospital after an absence of more than nine months.

Of the one hundred and twenty persons admitted, twenty-six, or a little more than one-fifth of the whole, have been inmates of the hospital more than once. Six men and fifteen women, a total of twenty-one, have been admitted twice each; one man and two women three times each; one man four times, and one man eight times.

Of the twenty-one who have been received twice each, only seven, all of them women, were discharged as recovered on their first admission. Eight were discharged as improved, and six as unimproved.

Of the three who have been here three times each, the man was discharged as recovered on his first two admissions. The women were both discharged as unimproved on both admissions.

The man who was received for the fourth time had been discharged as recovered on his first admission, improved on the second, and unimproved on the third. He has been treated at two other hospitals within the State.

The man received the eighth time had been discharged as recovered four times, and improved three times.

Thus, of persons who in any foregoing year had left the hospital with a record of recovery, ten returned to it within the official year just closed; and those ten persons had been discharged as recovered a total of thirteen times.

The number of *persons* admitted exceeded by five that of the next preceding year; and the number in the house at the end of the official year is larger by seventeen than it was a year ago. The daily average number in the house was a trifle larger than in 1879-80, notwithstanding that no less than nineteen patients were transferred, in the course of the year, to the Springfield Almshouse. All of these facts tend to show that insanity is increasing in the western part of the State, the section from which this hospital derives its patients, as well as to confirm the belief that the time is not very remote at which the people of that section will require more accommodations of the kind than are here to be found.

## STATUS OF PATIENTS.

As has already been stated, the number of patients admitted was one hundred and twenty-three. Upon entering the hospital the cost of support of forty of them was defrayed by the State, of sixty-four by cities and towns, and of nineteen by their friends, or from other private sources. In the course of their terms of residence here this cost was transferred from the State to towns in two instances, and from the State to individuals in one instance.

One hundred and six patients either left the hospital or died. Twenty-five of these derived their support from the Commonwealth, sixty-three from cities and towns, and eighteen from individuals.

Of the four hundred and sixty-three patients who were in the hospital at the end of the official year, one hundred and eighty-one were beneficiaries of the State, two hundred and twenty-four were supported by cities and towns, and fifty-eight were private patients.

From the statistics in the Saturday reports sent from the hospital to the Board of Health, Lunacy, and Charity, we derive the weekly average number of patients in each of the three classes mentioned. They are as follows:—

	Males.	Females.	Totals.
State patients . . . . .	96.84	83.98	180.82
Town patients . . . . .	101.63	112.52	214.15
Private patients . . . . .	29.73	27.46	57.19

The relative proportion of the numbers of patients in the three classes has varied to a great extent at different periods in the course of the last seventeen years. At the end of the official year 1863-64 there were two hundred and fourteen State patients, forty-five town patients, and seventy private patients. The actual numbers in all the classes increased, but those of State patients far the most rapidly, until two years afterwards, at the close of September, 1866, they were,—of State patients, two hundred and seventy-two; town patients, fifty-two; private patients, eighty-one.

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From that time to the present there has been a gradual diminution of numbers in the class of State patients, largely in consequence of alterations in the laws of settlement.

Some fluctuations have occurred in regard to town patients; but, upon the whole, and taken from year to year, there has been a constant, and at times a rapid, augmentation of their number. On Sept. 30, 1869, there were sixty-two; Sept. 30, 1872, ninety-five; Sept. 30, 1876, one hundred and forty-six; Sept. 30, 1879, one hundred and eighty-four; and Sept. 30, 1880, two hundred and five.

The number of private patients increased from year to year, until it attained its maximum in 1871. At the close of April of that year the numbers in all the classes were, — of State patients, two hundred and thirty-nine; town patients, seventy-four; private patients, one hundred and twenty-two. From the opening of the hospital up to the time just mentioned, a period of thirteen years, private patients had been received from all quarters, whether within or without the State; and of the one hundred and twenty-two of this class at that time present, more than seventy came from places beyond the borders of the Commonwealth. The pressure for admission by residents of the State had now become so great that it was determined thenceforth to admit no others. This determination has been strictly adhered to, and since the 4th of October, 1871, no non-resident of Massachusetts has been received. Not this alone, but many of the patients from other States were removed by direction of the Trustees, in order the more rapidly to make room for our own citizens. Under these influences the number of private patients diminished until it reached fifty, its lowest point, in August, 1878. Since that time it has slightly increased from year to year.

### RECOVERIES.

Among the patients who left the hospital within the year, there were seven men and thirteen woman, a total of twenty, who — *according to our standard of mental health, and our judgment in regard to the extent to which, in individuals, that standard is modified by temperament, idiosyncrasy, education, and habits* — were properly considered as recovered. No patient was discharged as recovered more than once in the course of the year. Of the twenty recoveries, two of men

and one of women were of persons who had at some former time been inmates of this institution. One of the men had been here three times, and was discharged as recovered every time; the other had been here once, and was discharged as recovered. The woman had previously been admitted twice, and was discharged as recovered on each admission. The former recoveries of the three persons were six; the total of their recoveries since this their last discharge is ten. The seventeen other persons—five men and twelve women—who recovered, had never before been inmates of this institution.

Three of the persons, who upon leaving the hospital were recorded as much improved, would probably have fully recovered had they remained here a sufficient length of time.

Of the twenty persons discharged recovered, four were supported by the State, eleven by cities and towns, and one by private funds.

Both the number and the relative proportion of recoveries was small,—a fact which must be attributed to the material upon which the medical officers were required to work. As, in the olden time, it was found inconvenient to make brick without straw, so, now, it is not easy to effect a restoration from disease when that disease has been permitted to become permanently fixed before it is subjected to a curative process. The proportion of incurables received at the hospital appears to be constantly increasing in the progress of years. So large has it now become, that one wonders where such a mass of chronic mental disease, in its confirmed condition and its most aggravated forms, can come from,—such a number of broken-down constitutions, so much of imbecility, of dementia, of paralysis, and of long-existent mania. But light upon this subject is near its dawn. The forthcoming national census will reveal the unwelcome fact that the number of the insane within the United States is nearly twice as large as has generally been supposed. From thirty to forty years ago the estimated proportional number in Massachusetts was one to every thousand of the population. It is now known that there are nearly three to every thousand. It is from this great reserve of mental disorder that the hospitals are, in large measure, drawing their supplies of patients



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They are kept at their homes, or in other receptacles, so long as they can be cared for without an overburden of work or of annoyance, or so long as that care is unattended by personal danger, and then a refuge is found, chiefly in the institutions provided by the State.

### DEATHS.

Twenty-six patients died in the course of the year. Sixteen of them were men, and ten women. Judged by the extent of their fatality during this period, two diseases stand side by side, with four deaths each, as the most prominent destroyers of life. One of them is that peculiar form of cerebral disorder, which was never mentioned in a report of an American hospital for the insane until within the last forty years, the *paralysie générale* of the French, called *paralysis of the insane*, or *paresis*, by the English and the Americans; the other is that gradual destruction of the vital forces and slow wasting away of the body, without acute or severe disease, which in medical language is named *marasmus*,—a disorder which, with the single exception of consumption, is, in institutions for the insane, the cause of greater mortality than any other. Consumption, often the foremost, is this year the third on the mortuary list, with three deaths. Two patients died of paralysis, two of epilepsy, and two by suicide. There were ten more deaths, no two of which were the result of any one disease. The detail of their causes may be found in one of the tables in the appendix. It still remains to be a fact—a fact that approaches the marvellous—that no patient has ever died in the hospital of typhoid fever.

The only important unpleasant occurrences of the year were two deaths by self-destruction. In one of them, a man effected his purpose by strangulation; and in the other, a woman, by hanging. In both instances the medical examiner of this district was called to take cognizance of the matter. The hospital has now been in operation twenty-three years, and the number of deaths by suicide is sixteen, ten of which were of men, and six of women. Eight of those of men occurred within the first nine years of the history of the institution. During the time between the 8th of November, 1869, and the 15th of November, 1880, a period of more than eleven years, no casualty of this kind took place among the men.

Of the whole number of deaths by suicide, ten were within the first eleven years of the operations of the hospital, four within the last eleven years, and one in the middle, or twelfth year. But, as mentioned last year, the average number of patients in the hospital was larger by more than a hundred during the period last mentioned than during the period first mentioned.

Once more, as in a large majority of the preceding years, we have evidence of the greater mortality of men than of women among the insane. The sixteen deaths of men constitute a percentage of 5.70 in relation to the whole number of patients of that sex in the course of the year; but the percentage of the ten deaths of women, in like relation to their sex, was only 3.52. If, instead of the whole number of patients of either sex admitted, the daily average number in the house be taken as one of the terms of the comparison, the deaths of men were 7.01 per cent, while those of women were only 4.46.

Of the patients who died, seven were supported by the State, twelve by cities and towns, and seven by individuals or by private families.

The annual statistical history of the mortality in the hospital during the whole term of its existence is contained in the following table:—

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*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1891.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Average No. of Patients.	DEATHS.			Per Cent on Whole No. of Patients treated.	Per Cent on Daily Average No. of Patients.
			Men.	Women.	Total.		
1858-59,	313	229.55	7	12	19	6.07	8.27
1859-60,	398	255.96	9	18	27	6.78	10.51
1860-61,	434	314.26	15	15	30	6.01	9.54
1861-62,	442	313.80	9	10	19	4.20	6.05
1862-63,	470	355.28	19	7	26	5.53	7.31
1863-64,	475	357.63	17	30	47	9.89	13.14
1864-65,	469	342.40	17	24	41	8.73	11.97
1865-66,	468	370.35	18	13	31	6.35	8.23
1866-67,	543	401.03	23	24	47	8.65	11.71
1867-68,	565	413.41	25	18	43	7.61	10.40
1868-69,	590	405.10	13	12	25	4.23	6.17
1869-70,	604	408.83	22	11	33	5.46	8.07
1870-71,	616	421.90	16	12	28	4.54	6.64
1871-72,	619	428.72	19	18	37	5.97	8.63
1872-73,	614	437.23	13	8	21	3.42	4.80
1873-74,	626	460.54	14	11	25	3.99	5.32
1874-75,	629	475.35	23	18	41	6.52	8.62
1875-76,	629	474.21	18	19	37	5.88	7.80
1876-77,	603	476.16	21	21	42	6.96	8.82
1877-78,	551	442.43	14	9	23	4.17	5.19
1878-79,	535	436.73	14	9	23	4.29	5.27
1879-80,	559	450.51	17	12	29	5.19	6.44
1880-81,	569	451.79	16	10	26	4.57	5.75

The proportion of deaths during the year just closed was small. As calculated upon the whole number of patients treated, it was, as will be seen in the table, 4.57 per cent; and upon the daily average number in the house, 5.75 per cent. As calculated in the former way, there have been but eight of the twenty-three years of the existence of the hospital in which the proportion was smaller; and as in the latter, which statisticians regard as the more correct way, there have been but four.

Perhaps the most striking feature of the table, if examined as a whole, is the reduced mortality in the last half of the time in which the institution has been in operation, as compared with that of the first half. Not only is it lower, but it is more equable throughout the successive years of its period.

The ratio of deaths in the table has been calculated in the customary method, upon the number of *patients* treated. In one point of view there is a fallacy in the results of this method which, like other fallacies, conveys an erroneous

impression. This is especially true when the results of a series of years are under consideration. Under these circumstances the number of *patients* is always greater than the number of *persons*. By repeated admissions *one* person may make *several* patients. If, consequently, the percentage of deaths be calculated on the number of *patients*, it will always be smaller than the actual proportion of *persons* who have died. If, for example, one person should be admitted to a hospital ten times, and die there on his last admission, his statistical history would be one *person*, ten *patients*, one death; and the proportion of that death, calculated upon the whole number (10) of *patients*, would be only ten per cent, while if calculated upon the number (1) of *persons* it is 100 per cent.

In the statistical history of the Worcester Hospital, which has for several years been in the course of preparation, it has been shown that, prior to the close of the official year 1879–80, 12,401 *patients* had been admitted. The number of deaths had been 1,709, which is 13.78 per cent of the number of *patients*. But the actual number of *persons*, or individuals, admitted was only 9,246. Of this number, as before stated, 1,709 had died. This is 18.48 per cent, or the true proportion. The *annual* mortality at the hospital had probably not been over six or seven per cent.

In the course of the past year only one patient has been removed from the hospital, at the apparent approach of death, in order that he might die at home. In this instance, as in all other similar cases here, the decision in regard to removal was left entirely to the friends of the patient, without advice, either for or against it, from the medical officers of the institution.

#### WORSHIP AND ENTERTAINMENT.

In the course of the seventeen years of my connection with the hospital, there has been no Sabbath upon which the patients have not assembled for divine worship in the chapel; and in every instance the services have been conducted by a minister of the gospel having no official connection with the institution. These have mostly been pastors of the several denominational churches in Northampton; but not infrequently they have come from other towns in the neighbor-

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hood, occasionally from remote parts of the State, and sometimes from other States. These services are usually attended by about one-half of the patients. Some years ago special efforts were made to increase the attendance, and the proportion of patients present was carried up to from two-thirds to three-fourths of the whole number in the house. But it was found that, under the circumstances, the liability to disturbance by talking, by eccentric conduct, or by outbreaks of excitement among the more demonstrative patients, was so greatly increased that the propriety and usefulness of the endeavor was more than doubted. The practice was consequently discontinued. With but one-half the inmates present, the most frequent causes of disturbance are the paroxysms, or "fits," of epileptics. These occurrences are extremely unpleasant; and consequently furnish one of the many arguments in favor of separate institutions for that class of the insane from whom they arise.

A list of all the exercises in the chapel, in the course of the year, both on the Sabbath and on secular evenings, is placed below:—

1. EXERCISES ON THE SABBATH,—
 

Divine worship . . . . .	52 days
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2. EXERCISES ON SECULAR DAYS,—
 

In memory of President Garfield . . . . .	1 day
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3. EXERCISES ON SECULAR EVENINGS,—
  - (a) *Readings, opening and closing with sacred music:—*

The Bible . . . . .	24 days
The Bible, and selections of prose . . . . .	11 "
The Bible, and selections of poetry . . . . .	27 "
Miscellaneous selections of prose . . . . .	71 "
Miscellaneous selections of poetry . . . . .	69 "
Miscellaneous selections of prose and poetry . . . . .	27 "
  - (b) *Lectures, opening and closing with sacred music:—*

1. Description of the Sandwich Islands . . . . .	1 day
2. California and its products . . . . .	1 "
3. The people of England and of France contrasted, . . . . .	2 days
4. English and American dialects and idioms . . . . .	1 day
5. Origin and signification of English surnames . . . . .	2 days
6. Origin and signification of French surnames . . . . .	1 day
7. Origin and signification of German surnames . . . . .	1 "
8. Signification of Christian names . . . . .	1 "
9. Origin and signification of County names . . . . .	1 "
10. The English Mail-coach forty years ago . . . . .	1 "
11. The French Diligence forty years ago . . . . .	1 "

(c) *Other entertainments* : —

Pictures shown with the Stereopticon . . . . .	7 days
Concerts of vocal and instrumental music . . . . .	5 “
Recitations . . . . .	2 “
Exhibition of legerdemain . . . . .	1 day

(d) *Social gatherings* : —

Quadrille parties . . . . .	19 days
No assembly . . . . .	38 “

Total . . . . .	865 days
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As shown by this table, there was an assembly of the patients for either worship, instruction, entertainment, or amusement upon three hundred and twenty-nine days of the year. Among the thirty-six exceptional days were those upon which the institution was visited respectively by the Trustees; the Board of Health, Lunacy, and Charity; the Legislative Committee on Charitable Institutions, and the Governor and Council.

We are indebted to Dr. A. M. Shew, of the Connecticut Hospital for the Insane, for the lecture upon the Sandwich Islands; to Mrs. Dall, of Washington, for that upon California; to the choir of the Edwards Church, in Northampton, for a concert; to Miss Longley and Miss Rice, for three concerts; and to Dr. T. M. Meekins, for the exhibitions of pictures.

## FARM.

The season which is now passing away will rank as high, at least, as the average in favorableness to the growth of those productions of the soil which in this latitude contribute the most largely to the subsistence of man and his domestic animals. Of all the ordinary products of a New England vegetable garden we had, as usual, a very liberal supply; and no small quantity is required for the tables of five hundred and twenty persons, which is about the average for the year of the hospital household. Of potatoes, the product of the first planting of the Early Rose was somewhat reduced by the first and only important drouth of the season; but, notwithstanding the ravages of the potato-bug, which upon this farm were greater than in any foregoing year, the later crops were large and of excellent quality. The whole production was about three thousand bushels.

For apples it is the off-year, and consequently no abun-

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dance was anticipated, especially so soon after the overwhelming product of the years 1878 and 1880. Still the harvest of them will yield from seventy-five to a hundred barrels suitable for domestic use, and enough of poorer quality to make a dozen barrels of cider. This will enable us to keep up our own supply of vinegar.

Never before was the quantity of hay upon the premises so large. The first growth of grass yielded over 171 tons, and the second and third growths about 42 tons, making an aggregate of 213½ tons.

The following list of products—the quantities of some of which are estimates, because the harvest is yet unfinished—was prepared by the Farmer, Mr. Wright:—

### SCHEDULE OF PRODUCTS.

Hay (first growth of home farm), 102 tons, at \$16	. . . \$1,632 00
Hay (after-growth of home farm), 26½ tons, at \$16	. . . 424 00
Hay (first growth, S. Day lot), 26½ tons, at \$16	. . . 424 00
Hay (second growth, S. Day lot), 11½ tons, at \$16	. . . 184 00
Hay (South lot), 29½ tons, at \$16	. . . 468 00
Hay (Clark orchard), 14½ tons, at \$16	. . . 236 00
Hay (Fowle lot), 2½ tons, at \$16	. . . 44 00
Corn-fodder, dry, 20 tons	. . . 100 00
Oat-straw, 7 tons	. . . 70 00
Corn, 500 bushels	. . . 325 00
Potatoes, 3,000 bushels	. . . 1,800 00
Oats, 200 bushels	. . . 100 00
Broom-seed, 50 bushels	. . . 25 00
Carrots, 200 bushels	. . . 60 00
Beets, 1,200 bushels	. . . 480 00
Onions, 300 bushels	. . . 240 00
Turnips, 500 bushels	. . . 125 00
Parsnips, 25 bushels	. . . 12 50
Beans, Lima, in shell, 140½ bushels	. . . 175 62
Beans, string, 36 bushels	. . . 45 00
Beans, Lima, dry, 20 bushels	. . . 60 00
Pease, green, in pod, 79 bushels	. . . 118 50
Sweet corn, green, in ear, 103 bushels	. . . 103 00
Tomatos, 111 bushels	. . . 111 00
Lettuce, 94 bushels	. . . 56 40
Cucumbers, 91½ bushels	. . . 94 50
Squashes, summer, 93½ bushels	. . . 116 87
Squashes, winter, 6 tons	. . . 240 00
<i>Amount carried forward</i>	. . . <b>\$7,960 39</b>

<i>Amount brought forward</i>		\$7,960 39
Melons, 7,694 pounds		115 11
Asparagus, 29½ bushels		88 50
Pie-plant, 19 bushels		10 00
Beet-greens, 66 bushels		33 00
Cabbages, 2,500 heads		100 00
Currants, red, 8 bushels		32 00
Apples, 86 barrels		172 00
Pears, 27 bushels		40 50
Quinces, 3 bushels		6 00
Veal, raised here, 186 pounds		22 32
Pork, 15,610 pounds		1,092 70
Pigs sold, 120		331 00
Pigs, roasting		5 00
Turkeys, 442 pounds		86 05
Chickens, 32 pounds		5 70
Heads and plucks		21 00
Eggs, 133½ dozen		41 50
Milk, grass-fed, 24,069 quarts		1,203 45
Cider, 12 barrels		24 00
Broom-brush, 400 pounds		24 00
Calf-skins		8 00
Young calves sold		35 00
Wood sold		115 00
		<hr/>
		\$11,576 28

Inasmuch as a large part of the milk is produced from the hay, grain, and roots raised upon the farm, and the value of which is included in the foregoing list, we only report under appraisal one-quarter of the actual production, supposing that to be the product of grass. The whole quantity was 24,069 gallons. The list gives that number of quarts.

Thirty-five hogs, which were raised and fattened on the premises, were slaughtered within the official year. The weight of their carcasses, individually, was as follows: 369, 329, 516, 380, 440, 443, 534, 500, 302, 500, 496, 520, 450, 500, 336, 500, 481, 544, 400, 500, 450, 425, 355, 591, 743, 387, 230, 368, 411, 400, 400, 438, 480, 532, 360. The total weight was 15,610 pounds, making the largest annual product of pork in the history of the hospital farm. The mean or average weight is 446 pounds; the average weight of the largest five, 588 pounds; and that of the largest ten, 548 pounds.

There are now on the farm 9 horses, 8 oxen, 1 bull, 30 cows, 1 heifer, 104 swine, and some domestic fowls.



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### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1879-80, excepting such modifications as were required to accurately exhibit the facts as they exist at the present time.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board-bills of its patients, and the small sum of ten dollars each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last-mentioned source, during the past year, were sixty dollars.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received three dollars and fifty cents each per week from the treasury of the Commonwealth from April 1, 1870, to April 1, 1879. For one year after the latter date it received but three dollars each per week; and since April 1, 1880, it has received three dollars and twenty-five cents each per week. This is the compensation fixed by statute law. Two-fifths of the inmates now belong to this class. During the past year the weekly average of them was 39.99 per cent of the whole.

For town patients it has received, and now receives, from the treasuries of the towns respectively in which those patients have legal settlements, the same sum per week as from the State treasury for State patients; but the towns clothe their patients, and remunerate the hospital for damages done by them. Nearly one-half of the inmates are now in this class. The weekly average of them for the year was 47.36 per cent.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1881, was \$5.013 each per week. Clothing and damages are extra charges. The weekly average of these patients, during the past year, was 12.64 per cent, or about one-eighth of the whole.

The average weekly pay *per capita* received by the hospital for all its patients — State, town, and private — in the course of the year, is \$3.501. Such are the pecuniary resources of the institution. We turn to the results of

## THE FINANCE OF THE LAST SIXTEEN YEARS.

In April, 1865, the hospital was freed from debt, and the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the 1st of June, 1867, it received a direct bonus from the State of five thousand dollars, in two appropriations, for specific purposes,—one of two thousand, and the other of three thousand dollars.

As an offset to the five thousand dollars bonus, the hospital has purchased and paid for several lots of land, amounting to about one hundred and forty-nine acres, the total cost of which was \$25,590. The State then has, in this way alone, been overpaid for its bonus in the sum of \$20,590.

The amount paid by the hospital for repairs and improvements in the course of the sixteen years, from Sept. 30, 1865, to Sept. 30, 1881, is \$191,722.38.

The surplus of cash assets now on hand, including the reserve fund, is \$30,970.21, or \$30,668.17 larger than it was on the 30th of April, 1865.

The *purchased* provisions and supplies, including fuel and stored clothing, now on hand, are estimated to have cost \$15,456.20. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$12,956.20.

The value of household furniture in the hospital is, at a low estimate, at least ten thousand dollars greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called eight thousand dollars. Collecting these several sums, the account of debit of the Commonwealth to the hospital appears to be as follows:—

Excess of cost of land over direct bonus . . . . .	\$20,590 00
Repairs and improvements . . . . .	191,722 38
Excess of present cash assets . . . . .	30,668 17
Increase of provisions and supplies . . . . .	12,956 20
Increase of furniture . . . . .	8,000 00
	<hr/>
	\$263,936 75

The necessary current repairs of the buildings may be estimated at three thousand dollars annually. Deducting this

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sum for each of the sixteen years since Sept. 30, 1865, a total of \$48,000, there is a remainder of \$215,936.75. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely upon direct appropriations from the treasury of the Commonwealth.

### STUDIES RELATIVE TO THE CURABILITY OF INSANITY.

In once more inviting the attention of readers to the subject of the Curability of Insanity, I do not propose to inflict upon them a long discussion of the subject. The arguments already advanced in proof of the allegation that mental disorders are far less susceptible of cure than has generally heretofore been believed, ought to be, as to a great extent they have been, sufficient for their purpose. There is little necessity of additional evidence, either cumulative or other. Not only is the truth of the seven propositions derived as "conclusions" from my discussion of the subject five years ago becoming more and more widely recognized and acknowledged, both by the medical profession and by interested laymen, but an increasing number of the superintendents of hospitals and asylums so explain their statistics of recoveries as to give further proofs of that truth. Many of these might be quoted; but, at this point, two may be allowed to suffice.

In his report for 1880 of the Lancaster (Eng.) County Lunatic Asylum, Dr. David M. Cassidy records 159 patients as discharged recovered in the course of the year. In 88 of them the recoveries were from a first attack, while 66 were patients who had previously recovered from earlier attacks.

"Such recoveries," he writes, "as those in the latter category, must of course be taken for what they are worth. They are, in fact, relapsing cases, and nearly all will probably become again, more or less frequently, asylum inmates. Nor should it be concealed that even among the eighty-eight primary recoveries many will probably relapse, and some will die insane. This suggests forcibly the consideration that the care and alleviation of the condition of the general body of the insane is at least as important a function of asylums as is the so-called 'cure' of a small percentage of cases, few of

whom remain permanently sane. It also suggests the futility of making artificial distinctions between the curable and the incurable insane."

Dr. G. Mackenzie Bacon, of the Cambridgeshire, Isle of Ely, and Borough of Cambridge Pauper Lunatic Asylum, in the report of that institution for 1880, after announcing his intention to "tabulate all the re-admissions" of that institution from the time of its opening, proceeds as follows:—

"I feel it is only by such a method that we can arrive at the knowledge of what cases are really cured, and that it is important that asylum superintendents should know how many patients recover, in the sense of being restored to health for at least a considerable period, *and not merely how soon a recovered patient returns to the same asylum, to again go through the farce of a recovery, and be re-admitted perhaps in a week or a month.*"

*Results, in 1879-80 at the Massachusetts State Hospitals.*—The adoption last year by all the State hospitals for the insane in Massachusetts of the new series of statistical tables prepared by the Board of Health, Lunacy, and Charity, has given us an advantage never before enjoyed. It has enabled us to show very nearly, if not positively, just what was done by those institutions in the course of the official year 1879-80 towards the restoration of the insane and the diminution of their number within the Commonwealth.

At the four State hospitals, at Worcester, Taunton, Northampton, and Danvers, in the course of the year ending with Sept. 30, 1880, the number of persons admitted was 1,092, — *persons*, or individuals, be it understood, because it not infrequently happens that one and the same person is admitted more than once in the course of a year. Out of this number of persons, and those who were in the said hospitals at the beginning of the year, the number of persons discharged recovered was 283. This makes the recoveries, calculated on the admissions — the method which approximates most nearly the truth — equal to 25.91 per cent, or a small fraction more than one-fourth of the whole.

Such, then, are the results for one year at our curative State establishments. I have here stated them in the way that similar results have always, prior to the year 1880, been reported at the institutions for the insane throughout the United States. Even as so reported, giving to them all the

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advantage derived from a broad, general statement, with no examination into the detail of modifying facts and conditions, they yield no evidence of a great degree of curability of the insane. The curable *three-fourths* of former faith dwindles very nearly to *one-fourth* in absolute practice.

The hospital at Danvers, the newest of the four institutions mentioned, and situated nearest the populous centres of the State, received nearly all of the recent cases from Boston during the past year. It probably also received all which were committed from Lynn, Salem, Lowell, and Lawrence. But as that hospital has been only a short time in operation, I disregard it in the showing that I am now about to make, and take the three other hospitals, which have been in operation different periods, varying from twenty-three to forty-eight years.

Those three older hospitals, at Worcester, Taunton, and Northampton, admitted during the official year 1879-80, 521 persons. They discharged recovered 118 persons, making a percentage of recoveries of 22.64, a noteworthy fraction less than one-fourth of the number admitted.

But let us look a little farther. The three hospitals *discharged* 118 persons recovered; but they *admitted* 55 persons whom they had *previously* discharged recovered. Consequently the actual gain, in the course of the year, of recovered persons in the community was only 118 minus 55, which is 63. This is only 12.09 per cent, or less than one-eighth of the number of persons admitted. It is an average of 21 gained recoveries at each of three large hospitals, the average number of the patients of which was, for the year, equal to 503 for each.

A fact yet unmentioned gives, at first view, a still more discouraging aspect to the case. The 55 persons re-admitted after previous recovery had been discharged recovered, not alone once each, making 55 recoveries, but a total of 115 times. The public had been told in the reports of 115 recoveries of those 55 persons. Hence, if *recoveries*, and not *persons*, be considered, the three hospitals issued 118; but they took back 115 which had been previously issued, leaving in the general population a gain of only three, or an average of one for each hospital.

It is not improbable, however, that the excess of *recoveries*

(115) over that of persons (55) re-admitted was counter-balanced by a similar excess of *recoveries* over that of *persons* (118) discharged. For example, if one of the 55 persons re-admitted had previously been discharged recovered five times, there may have been, among the 118 discharged recovered, one who had previously been discharged recovered an equal number of times.

The statistics just given in aggregate for the three institutions were specifically, for each one of them, as follows:—

At the Worcester Hospital, the oldest of the three, although its present building is the newest, the number of persons admitted was 222. The number discharged recovered was 41, which is 18.46 per cent, or less than one-fifth of the admissions. But among the admissions were 25 persons whom it had previously discharged recovered. Hence the actual gain of recovered persons outside of the hospital was only (41 minus 25) 16, or 7.2 per cent of the number admitted.

The 25 persons re-admitted had been discharged recovered a total of 58 times.

At the Taunton Hospital, 184 persons were admitted and 49 discharged recovered, a percentage of 26.62. Of those admitted, 19 had previously been discharged recovered, so that the gain of recovered persons in the general population was only (49 minus 19) 30, or 16.3 per cent of the admissions.

The 19 persons re-admitted had been discharged recovered 35 times.

At the Northampton Hospital, the number admitted was 115. The number discharged recovered was 28, equal to 25.22 per cent. But of the persons admitted there were 11 who had previously been discharged recovered. The gain of recovered persons in the community was, therefore, only (28 minus 11) 17, or 14.78 per cent of the number admitted.

The 11 persons re-admitted had been discharged recovered a total of 22 times.

It is believed that from this exposition it will be apparent that the method still almost universally prevalent of reporting recoveries is, except in a technical or medical sense, very fallacious and deceptive; and that, until some other method, similar to the new one in Massachusetts, be adopted, those statistics will be worth next to nothing in the study of the problems of social science.

At the Danvers Hospital, the number of persons admitted in the official year was 571. The number discharged recovered was 165, or 28.89 per cent.

The proportion of recent cases received at that institution was unquestionably, and for obvious reasons, larger than at either of the other three.

That hospital had been in operation less than eighteen months at the beginning of the official year in question; hence it could not be expected that, among the persons admitted, there should be many who had previously been discharged from it recovered. And yet there were some such re-admissions—the report does not state how many; but it was of so many persons that their total of recoveries was 18.

*A Glance at Great Britain.*—Having shown the results at the State hospitals of Massachusetts, perhaps it may be permitted to extend our observation to some of the similar institutions abroad, for the purpose of further illustrating the subject, as well as showing the advantages of our recently adopted method of reporting recoveries.

At the British asylums the method of reporting the statistics has always been essentially the same as it is in the United States. We, indeed, followed their example. But it has heretofore been my impression that the proportion of patients re-admitted, after having been discharged recovered, was much smaller there than in this country. I have supposed that the British patients remained longer in the hospitals than do the American, and that thus their recoveries were so confirmed that relapses, or subsequent attacks, were comparatively infrequent. From information recently received, I infer that, at least to a certain extent, I was mistaken, and that there is no very great difference in these respects between the two countries.

Dr. Clouston, of the Royal Edinburgh (Morningside) Asylum, in his report for 1880, has introduced tables by which the same light is thrown upon his statistics of recoveries as upon those of the Massachusetts institutions by the new and recently adopted method of reporting, with the exception that he does not clearly discriminate between *cases* (or *patients*) and *persons*.

The admissions at Morningside, in 1880, were 347. Of these *patients*, the number suffering from the

First attack of the disease was . . . . .	231
Second attack . . . . .	58
Third attack . . . . .	24
Had had several attacks . . . . .	26
Congenital . . . . .	8

Hence it appears that, of the 347, no less than 108 (58 plus 24 plus 26), or nearly one-third of the whole, were re-admitted after recovery from one or more former attacks.

On the supposition that the word "several" means *three* (it probably, as used above, means more), those 108 patients had already been discharged "recovered" a total of 184 times.

So much for the patients admitted.

The number of patients *discharged*, recovered, was 165, which is 47.55 per cent, as calculated on the admissions. Of these 165, there were who

Recovered for the first time . . . . .	97
Had recovered in former years . . . . .	63
Recovered more than once in 1880 . . . . .	5
Total . . . . .	165

At the close of the year no less than nine (9) of these had already been brought back to the asylum, and still remained there or had been removed *unrecovered*.

If the figures in these two tables represent *persons*, we derive from them the following result:—

The asylum discharged, recovered, 165; but it took back, of persons who had formerly been discharged recovered, 108. Consequently the actual gain of recovered persons in the general population was only 57 (165 minus 108). This is only 16.42 per cent of the admissions.

The movement of the population at the Morningside Asylum is very rapid. Many of the patients apparently remain in the institution but a comparatively short time. For these reasons it is believed that the proportion of patients returning to it after having been discharged recovered is larger than at most of the British asylums.

In his report for 1880 of the Derbyshire (England) County Lunatic Asylum, Dr. J. Murray Lindsay states that in 20 per cent of the admissions "there had been previous attacks of



insanity." At the Richmond District Asylum, Dublin, Ireland, in 1880, the admissions were 420, of which 65, or 15.47 per cent, were "relapsed cases." The number discharged recovered was 167; but the gain of recovered persons in the general population was only 102 (167 minus 65).

*The British Medico-Psychological Association.*—The most striking evidence of progressive thought relative to the general subject under consideration is the fact that, at the annual meeting of the British Medico-Psychological Association, which was held in London in August last, the statistical committee of that society recommended for adoption some new tables, as well as alterations in some of those already in use, so modifying the series, as a whole, that the statistics of the asylums can be reported with essentially the same detail and the same perspicuity in regard to recoveries as is found in the new tables of the institutions in Massachusetts.

After a brief discussion, it was decided to postpone for one year the question of their adoption, for the purpose of giving the members an opportunity to study them and to discuss their merits at the quarterly meetings. But there can hardly be a doubt as to the result. The proposed alterations will be adopted. In the present state of things—when, in consequence of the existence of various organizations for the promotion of the objects of social science, the call, outside of the profession, for information in regard to insanity is ten-fold greater than it was forty years ago—the members of the British association cannot afford to refuse to display their statistics in such manner as will render them valuable to the members of those organizations. The present *technical* truthfulness of those statistics must be expanded into an *absolute* truthfulness in regard to the relation between the disease and individuals, or the most important part of the statistics themselves will soon become entirely, as they even now are essentially, valueless. Dr. Clouston is not going to recede from the position gained by the step in advance taken at the time of making the report just passed under review,—a position in which he could show not alone what his institution had accomplished during the year in relation to *disease*, but also to what extent its beneficial influence had affected his *fellow-men*. There are many others among his colleagues in the specialty in England and Scotland who are even now

ready to follow his example. The rest will doubtless mostly be ready at the expiration of the appointed year. Let them remember that, no less than forty years ago, a reformation in the statistics of insanity was called for by an Englishman whose keen and comprehensive intellect and whose soundness of judgment were second to those of no one of his countrymen who have written upon the subject: I allude to the late Samuel Tuke. In the thoughtful and excellent article used as an introduction to his translation of Dr. Maximilian Jacobi's treatise on the construction and management of institutions for the insane, he wrote as follows:—

“The whole subject of the mode of reporting the results of our institutions for the insane calls loudly for attention, if we would arrive at any useful statistical comparisons as to the effect of treatment and other circumstances on the health of the patients, and in regard to the cure of this greatest of all human maladies. The subject would not be unworthy of a special consultation amongst the professional men who are devoted to this department of the medical art.”

It appears to me, from the very wording of this extract, that its author had in view the specific changes—perhaps with others—which it is intended to accomplish by the adoption of the proposition now before the Medico-Psychological Association. Shall his suggestions be permitted to lie under the dust and ashes of a half-century before they are carried into effect?

*Old but valuable German Statistics.*—At the Siegburg Asylum, in Rhenish Prussia, an institution which at that time was under the superintendence of Dr. Maximilian Jacobi, the statistics of recoveries from Jan. 1, 1825, to Dec. 31, 1845, a period of twenty-one years, were as follows:—

	Men.	Women.	Total.
Whole number recovered . . . . .	377	284	661
Living at the end of the period, and have had no relapse . . . . .	169	153	322
Relapsed, and recovered again at the Asylum . . . . .	79	48	127
Relapsed and not yet cured . . . . .	5	6	11
Relapsed and become incurable . . . . .	34	30	64
Relapsed and died insane . . . . .	39	18	57
Died without a relapse . . . . .	43	25	68
Not heard from . . . . .	8	4	12

The number of patients admitted in the course of the period is not given, and consequently the percentage of recoveries cannot be obtained. The statistics are valuable chiefly for the purpose of ascertaining to what extent the recoveries were permanent.

At the time of the close of the twenty-one years, 259 of the 661 persons had "relapsed," or, as it is generally stated in this country, had had a second attack. This is equivalent to 39.1 per cent, or a slight fraction less than two-fifths of the whole. But these are not *final* results. Within the *ten years next following the close of the period* the number of relapses would be large, especially among the patients who recovered in the last half of the period. If about *two-fifths* of the whole relapsed *within* the period, it appears perhaps more than probable that *one-fifth* (or half as many more) would relapse *afterwards*. Supposing this estimate to be accurate, the whole number of persons relapsed would be equal to three-fifths of the whole number of persons recovered. This corresponds with Dr. Thurnam's well-known formula, derived from his investigation of the subsequent history of patients recovered at the York Retreat.

In regard to the proportion of the persons recovered who would ultimately die insane, it will be perceived that, at the close of the period, it was still too early to furnish the data for a very accurate estimate. Something, however, in that direction may be done. Already the number who had relapsed and died insane was 57. The number who had relapsed and become incurable, and who would consequently die insane, was 64. This gives a total of 121, or a little less than *one-fifth* of the whole, whose deaths, while insane, were assured. According to the above-mentioned formula, *two-fifths* of the whole should die insane. Hence we must find a little over *one-fifth*, or in actual numbers 143, *more* who would die insane. These must be looked for (1) in the 322 who had not relapsed, but many of whom undoubtedly would relapse; (2) in the 127 who had relapsed and recovered again, and, judging by what we know in regard to the liability to repeated relapses, a very large proportion of whom would relapse again; and (3) in the 11 who had relapsed, and were not yet cured. Of these 460 persons, it would not be surprising if 143 should die insane.

*An Echo from the Antipodes.*—There are two lunatic asylums in South Australia. They are under the general supervision of a board of visitors, of which Dr. Alexander S. Paterson is chairman. The report for 1880 of this Board, signed by the chairman as colonial surgeon, is before me. It deals with the subject of recoveries with a commendable extent of detail, although it fails to discriminate between *persons* and *cases*, and to give the number of attacks and of recoveries of those patients who have been re-admitted after recovery.

At the two asylums, Adelaide and Parkside, the aggregate number of admissions in 1880 was 223. The number of patients discharged recovered was 90, which is equal to 40.85 per cent. But, of the patients admitted, there were 35 who had previously been discharged recovered. The two institutions gave to the people 90 recoveries; but they received back from the people 35 former recoveries. Therefore, the gain of recoveries among the people was (90 minus 35) only 55. This is 24.66 per cent of the admissions.

Five of the patients re-admitted returned to the hospital within a month from the time at which they were discharged recovered.

As might be expected, in a country so recently settled as South Australia, a large proportion of the recoveries were from cases originating in intemperance. In no less than 25 cases of males, the form of the disorder is called *alcoholismus*. The patients recovered in 24 of them. Eight of these were in the asylum less than a month each; and the average time of treatment of the 24 was only one month and seven days.

*Athenian Success.*—I now approach a “study” from the consideration of which I would gladly be released; but, in the discussion of this subject, it is proper that all fallacies should be exposed, and all sources of error pointed out. Furthermore, I have been criticised for the assertion, in the pamphlet on the Curability of Insanity, that the medical officers of institutions for the insane are men “with like passions as other men,” and therefore the introduction here of any evidence that sustains the truth of the assertion is more than justifiable.

That the reader may enter more intelligently upon the matter, it may be remarked that, in Ohio, the superintendent

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ents of the State institutions for the insane are among those persons whose offices are the "spoils" which belong to the victors in politics. The mere statement of this fact is sufficient for the present purpose. Any attempt to present, in detail, the evils consequent upon such a state of things would be irrelevant.

In his report for 1880, of the State Asylum for the Insane at Athens, Ohio, Dr. H. C. Rutter, who had but recently been appointed to the office of superintendent, mentions the discussion of the Curability of Insanity begun in the reports of this hospital; and, after stating that it has been taken up by alienists all over the world," gives the following confirmatory evidence of the truth of one of my "conclusions":—

"It has frequently happened that the same person has been discharged more than once during one year, and that each discharge has been reported as a separate cure. One person in Ohio is reported to have recovered seven times in one year, and while he figured in the annual report as seven 'recoveries,' was actually a patient in one of the wards at the time the report was made out."

After some further remarks he proceeds as follows:—

"It has also been charged that these 'cures' are flexible, and can be increased by the Superintendent whenever occasion arises to prove his superior fitness and qualifications as a specialist. This charge has been made repeatedly, and by many distinguished members of the profession, who have been disgusted with the idle talk about cures made by political superintendents for the purpose of gaining cheap notoriety through the secular press. We have, perhaps, felt this in Ohio to a greater extent than in almost any other State in the Union. To show that these charges are not made without some foundation, and that some reason for the demand that is being pressed for a reform in our asylum statistics does exist, I will quote some interesting cures from the general register of this asylum.

"During the two years previous to May 20, 1880, we find among the 'cures' the following remarkable cases. I quote from the male register, and presume the female register shows an equal proportion of remarkable cures:—

					Cures.
"Duration of insanity over 50 years	.	.	.	.	1
" " " " 20 "	.	.	.	.	6
" " " " 18 "	.	.	.	.	3
" " " " 15 "	.	.	.	.	3
" " " " 12 "	.	.	.	.	3
" " " " 6 "	.	.	.	.	16
Total over six years	.	.	.	.	32 "

Thus, in the course of two years, and from the men's department alone, thirty-two cases were discharged as recovered, in no one of which had the disease existed less than six years. In one it had existed fifty years; and the average duration for the whole was more than twelve years. "Four of these," continues the Doctor, "were cases of chronic dementia; four were epileptic, with duration of insanity ranging from seven years to twenty-one years."

No man who has had any considerable experience in a hospital for the insane can fail to instantly perceive the preposterous absurdity of such statistics as these. By a probably low estimate, there are now in the public institutions of Massachusetts not less than fifteen hundred insane persons who might be set at liberty and reported as "cured" or "recovered" with as much propriety as were those thirty-two patients at the Athens Asylum. But by those thirty-two cases, together, undoubtedly, with similar ones from the female department, the Superintendent increased the proportion of his "cures" to 63.50 per cent.

I am still of the opinion that "the medical officers of institutions for the insane can claim no exemption from the common weaknesses of human nature;" that "they are men with like passions as other men," and that the degree of confidence which is to be placed in their statistics depends, to a large extent, upon the temperament and character of the individual from whom they come.

#### ACKNOWLEDGMENTS.

The hospital is indebted to Dr. Alonzo S. Wallace, of Brookline, New Hampshire, and formerly an assistant physician here, for the gift of a preserved and mounted specimen of the gray eagle. It has been placed in the rotunda. We are also under obligations to several other persons for contributions to the reading-matter for the inmates:—to Miss Florence Austin for eight volumes of Harpers' Family Library, and two illustrated monthly publications; to Miss Julia Clark, of the Northampton Book Club, for several volumes of magazines; to S. E. Bridgman for many copies of religious newspapers; and to the publishers of "The Staaten Zeitung" for two copies, weekly, and the publishers of "The Christian Register" for one copy, weekly, of those periodicals.

The official year closes with the same staff of administrative officers with which it began; but among the subordinate officers there have been two changes: Jeremiah E. Shufelt, who for over sixteen years had occupied the position of Supervisor, and performed its duties with much ability, and Nell Russell, who for more than four years faithfully filled the place of Laundress, have left. I cannot well forbear to commend both of them as the possessors of three qualifications pre-eminent in persons employed in a public institution, — a quiet, bridled tongue, intent attention to their own business, and judicious non-interference with the business of others.

And thus, regardless of the exigencies of the future, we turn our backs upon another cycle of time departed and of duties performed. To you who have been our counsellors, and to all those who, with a single eye to duty, have been engaged with me in bearing the burden of the year, I extend my most cordial thanks.

PLINY EARLE.

OCTOBER 6, 1881.

## DIETARY OF THE NORTHAMPTON LUNATIC HOSPITAL.

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[There are two bills of fare, the first of which is supplied to the tables of about two hundred persons, and the second to those of somewhat over three hundred.]

### BILL OF FARE, No. 1.

#### *Breakfast.*

*Monday.* — Tea, coffee, broiled beefsteak, potatoes, warm rolls ("biscuit"), bread and butter.

*Tuesday.* — Tea, coffee, fried tripe,<sup>1</sup> potatoes, warm rolls, bread and butter.

*Wednesday.* — Tea, coffee, broiled mackerel, potatoes, and warm brown (rye and indian) bread.

*Thursday.* — Tea, coffee, broiled beefsteak, potatoes, warm rolls, bread and butter.

*Friday.* — Tea, coffee, fried tripe,<sup>1</sup> potatoes, warm rolls, bread and butter.

*Saturday.* — Tea, coffee, either fried fish-balls or liver, meat hash, hot corn-cake, bread and butter.

*Sunday.* — Tea, coffee, cold corned beef, potatoes, warm rolls, bread, butter, and fried indian corn pudding.

#### *Dinner.*

*Monday.* — Roast beef, potatoes and one other vegetable, bread, butter, boiled rice with syrup or sugar.

*Tuesday.* — Vegetable soup, roast or stewed veal,<sup>2</sup> potatoes and one other vegetable, bread, butter, and baked indian pudding.

*Wednesday.* — Either fried or baked fresh fish, or boiled mutton, potatoes and one other vegetable, bread, butter, and berry or apple pudding with sauce.<sup>3</sup>

*Thursday.* — Vegetable soup, corned beef, potatoes and one other vegetable, bread, butter, and boiled suet pudding with syrup.

<sup>1</sup> Tripe is replaced in winter by sausages, and in spring by fried ham and eggs, except in the season of shad, when that fish is given once each week instead of ham and eggs, and once instead of beefsteak.

<sup>2</sup> Substituted in winter by fresh pork ribs, roasted.

<sup>3</sup> In spring, maple syrup is used as sauce for puddings.



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*Friday.* — Either boiled or roasted mutton,<sup>1</sup> or stewed or roasted veal, potatoes and one other vegetable, bread, butter, and tapioca pudding or raisin pudding of either rice, bread, or cracker.

*Saturday.* — Baked beans, corned beef, potatoes and one other vegetable, pickles, bread, butter, and baked bread pudding.

*Sunday.* — Cold corned beef, potatoes, warm baked beans, pickles, bread, butter, and pies, the kind varying with the season.

### *Supper.*

*Monday.* — Tea, bread, warm corn-cake, butter, hard gingerbread, and a relish.<sup>2</sup>

*Tuesday.* — Tea, white bread, graham bread, butter, soft gingerbread, and a relish in the warm season, substituted by buckwheat-cakes in the cold season.

*Wednesday.* — Tea, bread, butter, cookies and ginger snaps, and a relish.

*Thursday.* — Tea, bread, butter, pie (the kind varying with the season), and cheese.

*Friday.* — Tea, bread, butter, cake (the kind varying), and a relish.

*Saturday.* — Tea, bread, butter, doughnuts, and cheese.

*Sunday.* — Tea, bread, butter, cookies and ginger snaps, and blanch-mange, or corn-starch.

*Extra.* — In the winter and spring months hulled corn at supper, once in two weeks, on Saturdays.

## BILL OF FARE, No. 2.

### *Breakfast.*

*Monday.* — Coffee, cold corned beef, potatoes, and bread.

*Tuesday.* — Coffee, cold roast beef, potatoes, and bread.

*Wednesday.* — Coffee, meat stew, potatoes, and warm rye and indian corn brown bread.

*Thursday.* — Coffee, picked codfish cooked in milk, potatoes, and bread.

*Friday.* — Coffee, cold corn beef or meat stew, potatoes, and bread.

*Saturday.* — Coffee, hash (either of meat or fish), and bread.

*Sunday.* — Coffee, cold baked beans, potatoes, and bread.

Butter is used in two halls in the morning.

### *Dinner.*

*Monday.* — Roast beef, potatoes and one other vegetable,<sup>3</sup> boiled hominy with molasses, and bread.

<sup>1</sup> Substituted by stewed oysters in winter and spring, with some kind of roasted meat for those who prefer it.

<sup>2</sup> This term, used for the want of a better, includes dried beef, berries, baked apples, apple-sauce, and canned fruits, all of which are supplied, and each according to the season.

<sup>3</sup> Except two months in the spring.

*Tuesday.* — Vegetable soup, potatoes and one other vegetable,<sup>1</sup> baked indian pudding,<sup>2</sup> and bread.

*Wednesday.* — Boiled fresh fish with drawn butter sauce, potatoes and one other vegetable,<sup>1</sup> boiled hasty pudding with molasses, and bread.

*Thursday.* — Vegetable soup, potatoes, cabbage or some other vegetable, boiled rice with molasses,<sup>3</sup> and bread.

*Friday.* — Boiled codfish with drawn butter sauce, potatoes, beets, or some other vegetable, boiled hasty pudding with molasses, and bread.

*Saturday.* — Hot baked beans, potatoes, baked indian or bread pudding, pickles, and bread.

*Sunday.* — Cold corned beef, potatoes, pies (the kind varying with the season), and bread.

#### *Supper.*

*Monday.* — Tea, bread and butter.

*Tuesday.* — Tea, bread, butter, and soft gingerbread.

*Wednesday.* — Tea, bread, butter, and some kind of relish.

*Thursday.* — Tea, bread and butter.

*Friday.* — Tea, bread, butter, and soft gingerbread.

*Saturday.* — Tea, bread and butter.

*Sunday.* — Tea, bread and butter.

#### EXTRAS.

In August and September these tables are furnished at supper with either berries, tomatoes, or baked apples, as many as five times a week.

In four halls, sauce, of either fresh or dried apples, is furnished as often as three times a week for the rest of the year.

#### EXTRAS FOR THE WHOLE HOUSEHOLD.

All persons have roasted turkey at dinner on "Thanksgiving Day," and either turkey or chicken on one other day in the year.

From four to five bushels of green sweet corn, in the ear, is consumed, in its season, daily, with the exception of Sunday.

Tomatoes, cucumbers, and melons are furnished in liberal quantities in their season.

In the spring, cowslips and dandelions are largely used as greens, and horse-radish as a condiment.

During eight months of the year, a barrel of apples are distributed, daily, among the patients.

Beef tea, chicken broth, mutton broth, scalded milk, arrow-root gruel, oatmeal gruel, milk punch, cracked wheat, oatmeal porridge, dry toast, milk toast, toast with dropped egg, and boiled eggs, for invalids and all who are not able to take the regular fare.

<sup>1</sup> Except two months in the spring.

<sup>2</sup> All baked puddings for the whole household are made with milk.

<sup>3</sup> Maple syrup is furnished in place of molasses three or four times in the spring.



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## APPENDIX.

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2.\* *Monthly Admissions, Discharges, and Averages.*

MONTHS.	ADMISSIONS.			DISCHARGES (including Deaths)			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1880.</b>									
October . . .	8	5	13	4	6	10	225.93	223.68	449.61
November . . .	3	6	9	5	5	10	225.63	223.10	448.73
December . . .	4	2	6	3	—	3	226.32	224.22	450.54
<b>1881.</b>									
January . . .	5	1	6	6	12	18	228.13	221.16	449.29
February . . .	4	5	9	1	1	2	226.18	216.96	443.14
March . . .	4	5	9	2	6	8	228.35	219.42	447.77
April . . .	4	5	9	5	1	6	230.23	218.77	449
May . . .	5	6	11	7	4	11	227.42	222.03	449.45
June . . .	5	8	13	3	4	7	228.07	224.10	452.17
July . . .	5	8	13	3	4	7	229.80	227.68	457.48
August . . .	4	9	13	9	7	16	230.54	231.71	462.25
September . . .	6	6	12	3	5	8	229.40	231.93	461.33
Total of cases .	57	66	123	51	55	106			
Total of persons,	57	63	120	51	53	104			
Daily average for the year . . .	—	—	—	—	—	—	228.01	223.78	451.79†

3. *Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Total.	Males.	Females.	Total.
First . . . . .	48	49	97	—	—	—
Second . . . . .	6	15	21	—	7	7
Third . . . . .	1	2	3	1	—	1
Fourth . . . . .	1	—	1	1	—	1
Eighth . . . . .	1	—	1	4	—	4
Total of cases . . .	57	66	123	6	7	13
Total of persons . . .	57	63	120	3	7	10

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals were obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

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## 4. Ages of Persons admitted for the First Time.

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Total.	Males.	Females.	Total.
Fifteen years and less . . .	1	2	3	1	—	1
From 15 to 20 years . . .	3	2	5	—	5	5
20 to 25 years . . .	3	8	11	5	7	12
25 to 30 years . . .	5	2	7	9	2	11
30 to 35 years . . .	5	4	9	6	6	12
35 to 40 years . . .	3	5	8	7	5	12
40 to 50 years . . .	6	14	20	7	20	27
50 to 60 years . . .	1	1	2	8	3	11
60 to 70 years . . .	3	—	3	2	1	3
70 to 80 years . . .	1	—	1	1	—	1
Over 80 years . . .	—	—	—	1	—	1
Unknown . . .	17	11	28	1	—	1
Total of persons . . .	48	49	97	48	49	97

## 5. Parentage of Persons admitted.

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTAL.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Massachusetts . . .	19	16	15	13	34	29
New Hampshire . . .	1	1	—	1	1	2
Vermont . . .	1	1	1	1	2	2
Connecticut . . .	4	6	3	3	7	9
Rhode Island . . .	2	—	1	1	3	1
New York . . .	—	2	3	4	3	6
North Carolina . . .	—	—	1	1	1	1
America . . .	1	1	—	—	1	1
Canada . . .	1	1	1	1	2	2
England . . .	1	3	5	5	6	8
Ireland . . .	20	20	29	29	49	49
Wales . . .	1	—	—	—	1	—
Germany . . .	2	2	2	2	4	4
Holland . . .	1	1	—	—	1	1
Sweden . . .	1	1	—	—	1	1
Italy . . .	—	—	1	1	1	1
Unknown . . .	2	2	1	1	3	3
Totals of persons . . .	57	57	63	63	120	120

6. *Residence of Persons admitted.*

PLACES.	Males.	Females.	Total.
<b>Massachusetts, —</b>			
Hampshire County . . . . .	10	16	26
Hampden County . . . . .	31	28	59
Berkshire County . . . . .	11	13	24
Franklin County . . . . .	4	6	10
Unknown . . . . .	1	—	1
<b>Total of persons . . . . .</b>	<b>57</b>	<b>63</b>	<b>120</b>
Cities or large towns *	27	34	61
Country districts . . . . .	29	29	58
Unknown . . . . .	1	—	1
<b>Total of persons . . . . .</b>	<b>57</b>	<b>63</b>	<b>120</b>

7. *Civil Conditions of Persons admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First . . . . .	23	19	42	19	24	43	5	5	10	1	1	2
Second . . . . .	3	4	7	3	6	9	—	3	3	—	—	—
Third . . . . .	—	—	—	1	1	2	—	—	—	—	—	—
Fourth . . . . .	—	—	—	1	—	1	—	—	—	—	—	—
Eighth . . . . .	1	—	1	—	—	—	—	—	—	—	—	—
<b>Total of persons . . . . .</b>	<b>27</b>	<b>23</b>	<b>50</b>	<b>24</b>	<b>31</b>	<b>55</b>	<b>5</b>	<b>8</b>	<b>13</b>	<b>1</b>	<b>1</b>	<b>2</b>

\* Containing not less than 10,000 inhabitants.



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## 8. Occupations of Persons admitted.

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
County officer . . . .	1	Lawyer's wife . . . .	1
Clerk . . . . .	1	Musician's wife . . . .	1
Book-keeper . . . . .	1	Farmer's wife . . . . .	6
Manufacturer . . . . .	1	Farm laborer's wife . . .	1
Piano-tuner . . . . .	1	Laborer's wife . . . . .	9
Freight-agent . . . . .	1	Machinist's wife . . . .	3
Printer . . . . .	1	Watchmaker's wife . . .	1
Farmer . . . . .	7	Millwright's wife . . . .	1
Farm-laborer . . . . .	4	Carpenter's wife . . . . .	1
Laborer . . . . .	14	Undertaker's wife . . . .	1
Mill operative . . . . .	1	Fruit-seller's wife . . . .	1
Spinner . . . . .	1	Saloon-keeper's wife . . .	1
Weaver . . . . .	2	Tinsmith's wife . . . . .	2
Machinist . . . . .	1	Fireman's wife . . . . .	1
Mechanic . . . . .	1	Teacher . . . . .	2
Watchmaker . . . . .	1	Housekeeper . . . . .	5
Paper-maker . . . . .	2	Hospital attendant . . . .	1
Button-maker . . . . .	1	Nurse . . . . .	1
Carpenter . . . . .	2	Dressmaker . . . . .	1
Carriage-maker . . . . .	1	Laundress . . . . .	1
Wheelwright . . . . .	1	Saloon-keeper . . . . .	1
Cigar-maker . . . . .	1	Mill operative . . . . .	5
Hotel waiter . . . . .	1	Paper-sorter . . . . .	1
Tailor . . . . .	2	Servant . . . . .	6
Baker . . . . .	1	None . . . . .	9
Butcher . . . . .	1		
Stone-mason . . . . .	1		
None . . . . .	4		
Total of persons . . . .	57	Total of persons . . . .	63

## 9. Reported Duration of Insanity before Last Admission.

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER ADMISSIONS *			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital . . . . .	—	—	—	1	—	1	1	—	1
Under 1 month . . . . .	4	3	7	—	—	—	4	3	7
From 1 to 3 months . . . . .	6	7	13	—	1	1	6	8	14
3 to 6 months . . . . .	4	5	9	—	—	—	4	5	9
6 to 12 months . . . . .	5	5	10	1	—	1	6	5	11
1 to 2 years . . . . .	5	9	14	—	2	2	5	11	16
2 to 5 years . . . . .	8	6	14	1	2	3	9	8	17
5 to 10 years . . . . .	3	4	7	1	5	6	4	9	13
10 to 20 years . . . . .	1	—	1	2	1	3	3	1	4
Over 20 years . . . . .	—	1	1	1	1	2	1	2	3
Unknown . . . . .	12	9	21	2	5	7	14	14	28
Total of cases . . . . .	48	49	97	9	17	26	57	66	123
Total of persons . . . . .	—	—	—	9	16	25	57	63	120
Average of known cases . . . . .	Y. M. 2 2	Y. M. 2 10	Y. M. 2 6	Yrs. 16½	Yrs. 8½	Yrs. 11½	4½	4½	4½

## 10. Form of Disease in the Cases admitted.

FORM OF DISEASE.	Males.	Females.	Total.
Mania, acute . . . . .	22	18	40
Mania, chronic . . . . .	10	15	25
Mania, parietic . . . . .	2	—	2
Mania, epileptic . . . . .	1	3	4
Dipsomania . . . . .	1	—	1
Melancholia . . . . .	10	18	28
Dementia . . . . .	10	11	21
Dementia, acute . . . . .	1	1	2
Total of cases . . . . .	57	66	123
Total of persons . . . . .	57	63	120

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated.

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## 11. Probable Causes of Insanity in Persons admitted.

CAUSES.	Males.	Females.	Total.
<i>Physical.</i>			
Ill-health . . . . .	3	15	18
Intemperance . . . . .	12	4	16
Over-work . . . . .	4	8	12
Epilepsy . . . . .	3	4	7
Change of life . . . . .	—	8	8
Masturbation . . . . .	4	—	4
Bodily injuries . . . . .	3	1	4
Apoplexy . . . . .	—	1	1
Sunstroke . . . . .	1	—	1
Opium-eating . . . . .	1	—	1
Typhoid fever . . . . .	—	1	1
Old age . . . . .	1	—	1
Congenital . . . . .	1	—	1
Total of physical . . . . .	33	42	75
<i>Mental.</i>			
Domestic trouble . . . . .	1	4	5
Trouble . . . . .	1	2	3
Disappointment . . . . .	—	3	3
Loss of friends . . . . .	—	1	1
Loss of money . . . . .	—	1	1
Hard study . . . . .	1	—	1
Total of mental . . . . .	3	11	14
Total of physical . . . . .	33	42	75
Unknown . . . . .	21	10	31
Total of persons . . . . .	57	63	120

## 12. Relation to Hospitals of the Persons admitted.

	Males.	Females.	Total.
Never before in any hospital . . . . .	42	46	88
Former inmates of this hospital . . . . .	6	11	17
Former inmates of other hospitals in this State:—			
Danvers . . . . .	1	—	1
Shady Lawn, Northampton . . . . .	—	1	1
Former inmates of hospitals in other States, Former inmates of this hospital and of other hospitals in this State:—	5	1	6
South Boston and Taunton . . . . .	1	—	1
Former inmates of this hospital and of hospitals in other States . . . . .	2	3	5
Former inmates of this hospital, of other hospitals in this State, and of hospitals in other States . . . . .	—	—	—
Former inmate of hospital in England . . . . .	—	1	1
Totals . . . . .	57	63	120

## 13. Discharges, classified by Admission and Result.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTAL.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First . . . . .	5	12	17	4	4	8	13	12	25	5	7	12	14	8	22	41	43	84
Second . . . . .	1	-	1	1	3	4	-	2	2	1	2	3	2	2	4	5	9	14
Third . . . . .	-	1	1	1	-	1	1	-	1	-	1	1	-	-	-	2	2	4
Fourth . . . . .	1	-	1	-	-	-	-	1	1	-	-	-	-	-	-	1	1	2
Eighth . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Total of cases . .	7	13	20	6	7	13	15	15	30	6	10	16	16	10	26	50	55	105
Total of persons . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	53	103

One man was discharged as not insane, making the total of cases 106 and the total of persons 104.

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## 14. How supported.

SUPPORTED AS	PATIENTS ADMITTED.			AVERAGE OF THE YEAR.		
	Males.	Females.	Total.	Males.	Females.	Total.
State patients . . .	21	19	40	96.84	83.98	180.82
Town patients . . .	27	37	64	101.63	112.52	214.15
Private patients . . .	9	10	19	29.73	27.46	57.19
Total of cases . . .	57	66	123	-	-	452.16*

## 15. Cases discharged Recovered. — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital . . .	-	-	-	-	-	-	-	-	-
Under 1 month . . .	-	3	3	-	-	-	-	-	-
From 1 to 3 months . . .	2	1	3	3	4	7	-	-	-
3 to 6 months . . .	1	2	3	2	2	4	1	-	1
6 to 12 months . . .	-	1	1	1	1	2	2	2	4
1 to 2 years . . .	-	4	4	1	3	4	-	5	5
2 to 5 years . . .	-	-	-	-	3	3	-	4	4
5 to 10 years . . .	-	-	-	-	-	-	-	-	-
10 to 20 years . . .	-	-	-	-	-	-	-	-	-
Over 20 years . . .	-	-	-	-	-	-	-	-	-
Unknown . . .	4	2	6	-	-	-	4	2	6
Total of cases . . .	7	13	20	7	13	20	7	13	20
Total of persons . . .	7	13	20	7	13	20	7	13	20
Average of known cases (in months). . . . .	2 $\frac{2}{3}$	9 $\frac{6}{11}$	8 $\frac{1}{11}$	5 $\frac{1}{7}$	14 $\frac{3}{13}$	11 $\frac{1}{20}$	5 $\frac{1}{7}$	19 $\frac{6}{11}$	16 $\frac{1}{11}$

\* This, the *weekly* average, is larger by the fraction of  $\frac{33}{1001}$  than the *daily* average, which was 451.79.

## 16. Cases resulting in Death.—Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESI- DENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital . . .	—	—	—	—	—	—	—	—	—
Under 1 month . .	1	1	2	1	—	1	—	—	—
From 1 to 3 months .	3	—	3	1	2	3	—	—	—
3 to 6 months .	1	1	2	1	—	1	—	—	—
6 to 12 months .	1	2	3	1	1	2	1	3	4
1 to 2 years . .	1	—	1	1	1	2	—	—	—
2 to 5 years . .	5	3	8	7	2	9	7	—	7
5 to 10 years . .	4	1	5	2	2	4	3	4	7
10 to 20 years . .	—	2	2	1	2	3	3	1	4
Over 20 years . . .	—	—	—	1	—	1	2	2	4
Unknown . . . . .	—	—	—	—	—	—	—	—	—
Totals . . . . .	16	10	26	16	10	26	16	10	26
Average of known cases (in months) . . . . .	38 $\frac{1}{16}$	53 $\frac{1}{5}$	44 $\frac{11}{26}$	65 $\frac{1}{16}$	62 $\frac{8}{10}$	64	104	115 $\frac{1}{2}$	108 $\frac{11}{26}$

## 17. Cases discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Total.	Males.	Females.	Total.
Mania, acute . . . .	6	12	18	—	—	—
Mania, chronic . . .	1	—	1	3	3	6
Mania, parietic . . .	—	—	—	3	—	3
Mania, epileptic . . .	—	—	—	2	2	4
Melancholia . . . .	—	1	1	1	3	4
Dementia . . . . .	—	—	—	6	1	7
Dementia, parietic . .	—	—	—	1	—	1
Dementia, epileptic . .	—	—	—	—	1	1
Totals . . . . .	7	13	20	16	10	26

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## 18. Causes of Death.

CAUSES.	Males.	Females.	Total.
<i>Nervous System.</i> — Paresis . . . .	4	—	4
Chronic disease of the brain . . . .	1	—	1
Epilepsy . . . .	—	2	2
Paralysis . . . .	—	2	2
<i>Circulatory.</i> — Heart disease . . . .	1	—	1
<i>Respiratory.</i> — Pneumonia . . . .	1	—	1
Phthisis . . . .	2	1	3
<i>Digestive.</i> — Enteritis . . . .	—	1	1
Colliquative diarrhoea . . . .	1	—	1
<i>Miasmatic.</i> — Dysentery . . . .	—	1	1
Erysipelas . . . .	—	1	1
<i>Urinary.</i> — Nephria, or Bright's disease . . . .	1	—	1
<i>General.</i> — Old age . . . .	1	—	1
Marasmus . . . .	3	1	4
<i>Accidental.</i> — Suicide . . . .	1	1	2
Totals . . . .	16	10	26

## 19. Deaths, classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First . . . .	—	—	—	—	—	—	2	2	4	1	—	1	3	2	5
Total of cases,	—	—	—	—	—	—	—	—	—	—	—	—	3	2	5

## 20. Recoveries, classified by Results of Previous Admissions.\*

NUMBER OF THE ADMISSION.	RECOVERED			MUCH IMPROVED.			IMPROVED.			UNIMPROVED			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First . . . .	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Second . . . .	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Third . . . .	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Tot. of persons	2	1	3	—	—	—	—	—	—	—	—	—	—	—	—

\* In all the cases of more than one admission, this classification is based upon the result of the admission next preceding the last in each case respectively.

*21. Deaths, classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital . . . . .	—	—	—	—	—	—
Under 1 month . . . . .	—	—	—	1	—	1
From 1 to 3 months . . . . .	—	—	—	1	1	2
3 to 6 months . . . . .	—	—	—	1	—	1
6 to 12 months . . . . .	1	2	3	1	1	2
1 to 2 years . . . . .	3	—	3	1	1	2
2 to 5 years . . . . .	3	1	4	3	2	5
5 to 10 years . . . . .	4	2	6	5	3	8
10 to 20 years . . . . .	8	2	5	2	2	4
Over 20 years . . . . .	2	3	5	1	—	1
Unknown . . . . .	—	—	—	—	—	—
Totals . . . . .	16	10	26	16	10	26
Average of known cases (in months) . . . . .	121 $\frac{1}{8}$	173 $\frac{1}{8}$	141 $\frac{1}{8}$	76	66 $\frac{7}{10}$	72 $\frac{1}{8}$

*22. Ages of those who Died.*

AGES.	AT TIME OF THE FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Total.	Males.	Females.	Total.
Fifteen years and less . . . . .	1	2	3	1	—	1
From 15 to 20 years . . . . .	2	—	2	—	—	—
20 to 25 years . . . . .	—	—	—	—	1	1
25 to 30 years . . . . .	1	—	1	2	—	2
30 to 35 years . . . . .	2	2	4	—	2	2
35 to 40 years . . . . .	2	1	3	4	1	5
40 to 50 years . . . . .	1	4	5	4	2	6
50 to 60 years . . . . .	2	—	2	—	1	1
60 to 70 years . . . . .	1	—	1	1	3	4
70 to 80 years . . . . .	1	—	1	3	—	3
Over 80 years . . . . .	—	—	—	1	—	1
Unknown . . . . .	3	1	4	—	—	—
Totals . . . . .	16	10	26	16	10	26



23. *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1881.*

NEW CASES (FIRST ADMISSIONS).																			
YEARS.	ADMITTED.			DISCHARGED AND DIED IN 1880-81.															
	Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
1858, 2 months	90	129	228	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
1858-59	42	46	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1859-60	66	91	157	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1860-61	58	46	104	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1861-62	51	43	94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1862-63	56	57	113	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1863-64	35	30	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1864-65	54	55	109	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1865-66	66	52	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
1866-67	42	69	111	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1867-68	54	71	125	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1868-69	72	64	136	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1



*Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1881. — Concluded.*

YEARS.	RE-ADMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1881.						
	ADMITTED.						DISCHARGED AND DIED IN 1880-81.						Males.	Females.	Total.				
	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.						DIED.			
	Males.		Females.	Total.	Males.		Females.	Total.	Males.		Females.	Total.					Males.	Females.	Total.
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.							
1858, 2 months . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	5	18	
1858-59 . . . . .	4	1	5	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4	
1859-60 . . . . .	7	3	10	-	-	-	-	-	-	-	-	-	-	-	-	4	2	6	
1860-61 . . . . .	13	7	20	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4	
1861-62 . . . . .	13	5	18	-	-	-	-	-	-	-	-	-	1	-	-	2	1	3	
1862-63 . . . . .	14	11	25	-	-	-	-	-	-	-	-	-	-	-	-	2	5	7	
1863-64 . . . . .	12	15	27	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3	
1864-65 . . . . .	16	9	25	-	-	-	-	-	-	-	-	-	-	-	-	4	1	5	
1865-66 . . . . .	9	9	18	-	-	-	-	-	-	-	-	-	-	-	-	6	2	8	
1866-67 . . . . .	19	8	27	-	-	-	-	-	-	-	-	-	-	-	-	2	4	6	
1867-68 . . . . .	14	13	27	-	-	-	-	-	-	-	-	-	-	-	-	3	4	7	
1868-69 . . . . .	12	21	33	-	-	-	-	-	-	-	-	-	-	-	-	7	6	13	

[illegible]

*Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1881. — Concluded.*

YEARS.	RE-ADMITTED CASES.															REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1881.			
	ADMITTED.			DISCHARGED AND DIED IN 1880-81.											Males.	Females.	Total.		
				RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.					DIED.	
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.				
1858, 2 months . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	5	18
1858-59 . . . . .	4	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4
1859-60 . . . . .	7	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	4	2	6
1860-61 . . . . .	13	7	20	-	-	-	-	-	-	-	-	-	-	-	-	-	8	1	4
1861-62 . . . . .	13	5	18	-	-	-	-	-	-	-	-	-	-	-	1	-	2	1	3
1862-63 . . . . .	14	11	25	-	-	-	-	-	-	-	-	-	-	-	-	-	2	5	7
1863-64 . . . . .	12	15	27	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3
1864-65 . . . . .	16	9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	5
1865-66 . . . . .	9	9	18	-	-	-	-	-	-	-	-	-	-	-	-	-	6	2	8
1866-67 . . . . .	19	8	27	-	-	-	-	-	-	-	-	-	-	-	-	-	2	4	6
1867-68 . . . . .	14	13	27	-	-	-	-	-	-	-	-	-	-	-	-	-	8	4	7
1868-69 . . . . .	12	21	33	-	-	-	-	-	-	-	-	-	-	-	-	-	7	6	13

[illegible]

24. Relapsed Cases admitted in each Year, and discharged in 1881.

YEARS ENDING SEPT. 30.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.												REMAINING SEPT. 30. 1881.*										
	ADMITTED.			DISCHARGED AND DIED IN 1881.																			
				Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			Males.	Females.	Total.		
	Males.	Females.	Total.				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.								
1858, 2 months	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1858-59	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1859-60	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1860-61	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1861-62	6	2	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1862-63	5	8	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1863-64	6	10	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1864-65	8	4	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1865-66	4	3	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1866-67	11	6	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1867-68	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1868-69	6	9	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1869-70	5	4	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

\* By an oversight, last year, there were six cases — two men and four women — in this section of the table, which did not belong in it. The patients were here, but they were not cases of relapse.



# 68 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

## 25. Classed Average of Patients.

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Total.
<i>Monthly Average.</i>				
1864-65 . . .	225.10	48.16	69.83	343.25
1865-66 . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67 . . .	261.06	49.46	80.75	401.17
1867-68 . . .	262.65	47.02	103.06	413.03
1868-69 . . .	248.52	54.98	101.46	404.96
1869-70 . . .	236.10	65.04	107.23	408.46
1870-71 . . .	234.10	77.07	118.38	429.55
1871-72 . . .	226.06	89.57	112.27	428.80
1872-73 . . .	248.02	90.23	90.00	437.25
1873-74 . . .	284.48	102.88	82.06	469.42
1874-75 . . .	274.35	128.84	72.46	475.15
1875-76 . . .	259.19	146.02	68.94	474.15
1876-77 . . .	254.84	161.58	60.02	476.44
1877-78 . . .	211.00	175.71	54.75	442.86
1878-79 . . .	200.84	182.29	54.28	436.86
1879-80 . . .	197.03	198.01	55.46	450.50
1880-81 . . .	180.82	214.15	57.19	452.15

## 26. Monthly Consumption of Gas.

MONTHS.	Cubic Feet.	Daily Average.
<b>1880.</b>		
October . . . . .	32,250	1,040.32
November . . . . .	39,750	1,325.00
December . . . . .	44,750	1,443.55
<b>1881.</b>		
January . . . . .	43,800	1,396.77
February . . . . .	33,200	1,185.71
March . . . . .	31,350	1,011.29
April . . . . .	20,550	683.00
May . . . . .	14,650	472.58
June . . . . .	12,400	413.33
July . . . . .	11,400	367.74
August . . . . .	13,750	443.54
September . . . . .	22,350	745.00
Totals . . . . .	319,700	875.89*

\* Daily average for the year.

27. Supplies for the Several Departments for the Year 1880-81.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Rubber Sheets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtains.	Wash-bowls.	Zwers.	Chamber.	Mirror.	Hair-brushes.	Combs.	Carpet-strips.	Plates.	Cups.	Saucers.	Tumbler.	Mugs.	Bowls.	Pitchers.	Syrup-cups.	Knives.	Forks.	Lanterns.
<i>Men's Department.</i>																											
Upper 1st Hall . . .	18	12	3	2	2	6	9	12	3	1	—	18	—	—	7	11	15	12	18	21	3	6	4	—	3	3	—
2d Hall . . .	2	18	—	2	—	11	4	—	7	1	—	1	2	2	3	3	3	21	6	25	—	3	3	—	15	14	—
3d and 4th Halls . .	14	6	7	5	—	5	5	—	1	—	—	7	1	1	3	1	12	9	—	9	6	—	—	—	3	5	—
Middle 1st Hall . . .	14	18	7	2	—	5	6	—	6	1	—	11	1	1	4	—	18	33	18	9	—	2	—	—	—	—	—
2d Hall . . .	28	30	6	19	1	3	6	—	9	—	—	10	2	3	2	—	7	8	18	2	—	1	—	—	—	—	—
3d and 4th Halls . .	18	32	8	—	—	2	—	—	1	—	—	10	—	—	2	—	6	—	—	9	12	—	—	—	—	—	—
Lower 1st Hall . . .	24	14	5	3	3	2	4	—	2	1	—	17	1	2	3	—	18	—	12	—	—	—	—	—	—	—	—
2d Hall . . .	27	23	12	—	—	—	—	6	6	—	—	13	—	2	—	—	3	—	—	4	—	—	—	—	—	—	—
3d and 4th Halls . .	—	6	—	18	—	—	—	—	—	—	—	—	1	2	—	—	3	—	—	—	—	—	—	—	—	—	—
<i>Women's Department.</i>																											
Upper 1st Hall . . .	12	36	—	—	4	—	—	12	1	1	1	6	2	—	—	2	—	12	18	30	12	—	—	—	—	—	—
2d Hall . . .	16	36	12	—	3	4	—	20	4	3	—	15	2	—	10	—	6	6	6	6	10	—	—	—	4	—	—
3d Hall . . .	28	40	—	—	—	2	—	16	—	—	—	6	2	—	8	1	6	6	6	6	6	—	—	—	—	—	—
4th Hall . . .	15	12	—	—	4	3	—	24	—	—	—	12	—	—	3	—	12	12	12	6	6	—	—	—	—	—	—
Middle 1st Hall . . .	18	18	2	—	4	—	—	12	—	—	—	—	—	—	11	3	12	12	6	6	6	6	1	1	—	—	—
2d Hall . . .	39	40	4	6	9	—	—	36	4	1	1	8	—	—	7	1	—	6	6	6	6	6	—	—	—	—	—
3d Hall . . .	12	16	—	6	4	—	—	20	—	—	—	6	—	—	5	—	—	6	6	6	—	—	—	—	—	—	—
4th Hall . . .	13	—	—	—	4	—	—	—	—	—	—	12	1	—	16	2	—	6	6	6	—	—	—	—	—	—	—
Lower 1st Hall . . .	36	24	2	6	3	3	2	20	3	—	1	24	—	—	4	2	—	—	—	—	18	6	3	—	—	—	—
2d Hall . . .	48	40	8	6	4	12	12	34	3	—	—	6	—	—	6	—	—	—	—	—	6	6	—	—	—	—	—
3d Hall . . .	24	12	2	—	3	—	2	4	3	—	—	—	—	—	4	2	—	—	—	—	—	—	—	—	—	—	—
4th Hall . . .	—	—	—	—	—	—	—	—	1	—	—	—	—	—	5	—	6	—	—	—	—	—	—	—	—	—	—
Kitchen . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rear . . .	17	19	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Centre . . .	16	10	2	—	—	5	1	12	2	4	—	6	—	1	1	2	24	18	48	36	—	—	—	—	—	—	—
Aggregate . . .	430	404	64	97	44	68	45	286	45	12	4	207	12	12	97	33	303	141	196	200	70	73	27	1	67	48	7

## 27. Supplies for the Several Departments for the Year 1880-81 — Concluded.

	Spoons.	Glass Casters.	Table-spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish-towels.	Hollers.	Wash-basins.	Soap, pounds.	Brooms.	Whisks.	Dust-brushes.	Scrubbing-brushes.	Dust-pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe-brushes.	Spools Thread.	Skirts Linen Thread.	Papers Needles.	Papers Pins.	R Chambers.
<i>Men's Department.</i>																										
Upper 1st Hall . . .	6	1	1	6	—	2	9	—	6	—	38	8	4	3	2	1	1	1	—	—	6	1	—	—	—	—
2d Hall . . .	—	1	1	—	—	—	6	12	6	—	42	21	1	1	3	—	1	1	2	—	7	—	—	—	1	—
3d and 4th Halls . . .	—	—	—	—	—	—	—	12	—	2	60	16	1	1	1	—	1	1	2	—	15	—	—	—	—	—
Middle 1st Hall . . .	—	1	—	—	—	—	6	12	—	—	42	23	1	2	1	—	7	1	2	—	12	3	—	—	—	—
2d Hall . . .	—	—	—	—	—	—	32	6	12	—	46	20	1	1	2	—	5	1	1	—	19	2	—	—	—	—
3d and 4th Halls . . .	—	1	—	—	—	—	17	12	6	1	32	12	—	1	1	—	1	1	1	—	16	2	—	—	—	—
Lower 1st Hall . . .	—	—	—	—	—	—	4	12	6	—	46	23	—	1	—	—	3	1	2	—	16	2	—	—	—	—
2d Hall . . .	—	—	—	—	—	—	37	6	12	1	54	19	2	—	—	—	2	1	1	—	9	2	—	—	—	—
3d and 4th Halls . . .	—	—	—	—	—	—	44	12	6	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Women's Department.</i>																										
Upper 1st Hall . . .	—	—	2	12	—	—	—	—	—	1	30	5	—	—	—	—	—	1	1	—	—	—	—	—	—	—
2d Hall . . .	6	—	4	—	—	—	—	—	—	1	44	17	—	—	—	2	1	1	3	—	—	—	—	—	—	—
3d Hall . . .	—	—	—	—	6	—	24	—	—	—	58	8	2	—	1	1	1	1	8	—	—	—	—	—	—	—
4th Hall . . .	—	—	—	—	—	—	—	—	6	—	40	9	1	1	—	—	2	2	3	—	—	—	—	—	—	—
Middle 1st Hall . . .	—	—	—	—	—	—	12	12	—	—	54	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2d Hall . . .	—	—	3	—	—	—	30	6	18	2	60	26	1	2	3	1	4	4	2	—	—	—	—	—	—	—
3d Hall . . .	—	—	—	—	—	—	12	12	—	—	64	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4th Hall . . .	—	—	—	—	—	—	6	12	—	—	48	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lower 1st Hall . . .	—	—	2	—	—	—	42	6	—	—	40	19	—	—	—	—	2	2	2	—	—	—	—	—	—	—
2d Hall . . .	—	—	2	—	—	—	12	—	—	—	58	25	—	—	—	1	1	1	1	—	—	—	—	—	—	—
3d Hall . . .	—	—	—	—	—	—	—	—	—	1	40	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4th Hall . . .	—	—	—	—	—	—	—	—	—	1	18	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kitchen . . .	—	—	—	—	—	—	—	—	—	—	72	61	2	—	—	—	—	—	—	—	—	—	—	—	—	—
Rear . . .	—	—	—	—	—	—	—	—	—	—	160	90	—	3	1	1	1	1	4	—	1	—	—	—	—	—
Centre . . .	—	—	—	—	—	—	—	—	—	—	28	5	2	1	2	1	1	1	5	—	—	—	—	—	—	—
Aggregate . . .	12	20	14	18	111	36	215	142	90	12	1,222	480	17	22	20	8	52	36	4	107	10	125	6	35	80	15

*28. Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Total.	Women.	Men.	Women.	Total.
<b>1880.</b>								
October .	708	124	272	396	146	21	290	311
November .	606	120	248	368	153	22	321	343
December .	448	124	237	361	169	23	319	342
<b>1881.</b>								
January .	487	124	237	361	154	13	326	339
February .	412	112	221	333	142	20	311	331
March .	434	124	240	364	149	23	343	366
April .	597	150	223	373	147	24	301	325
May .	716	155	219	374	144	32	336	368
June .	814	150	218	368	155	35	350	385
July .	801	155	221	376	161	46	270	316
August .	776	155	233	388	156	46	328	374
September .	646	150	235	385	129	48	342	390
<b>Totals .</b>	<b>7,445</b>	<b>1,643</b>	<b>2,804</b>	<b>4,447</b>	<b>1,805</b>	<b>353</b>	<b>3,837</b>	<b>4,190</b>

The total of days' work here recorded is 17,887. This is what was performed by the regular workers on the farm and in the three departments mentioned. No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler-room, the mattress-room, and the carpenter's shop. A large amount of other work is done both in the halls, and, at irregular times, out of them.

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### 29. List of Articles made in the Sewing-room.

Dresses . . . . .	260	Bolster-cases . . . . .	53
Chemises . . . . .	398	Spreads, hemmed . . . . .	79
Aprons . . . . .	148	Bags . . . . .	21
Waists . . . . .	12	Table-spreads . . . . .	14
Sacques . . . . .	15	Towels . . . . .	816
Drawers . . . . .	77	Towels, hemmed . . . . .	114
Skirts . . . . .	147	Napkins . . . . .	18
Nightdresses . . . . .	18	Roller-towels . . . . .	81
Collars . . . . .	115	Bureau-spreads . . . . .	4
Shirts . . . . .	196	Waiter-napkins . . . . .	6
Camisoles . . . . .	80	Dish-towels . . . . .	10
Pants (pairs) . . . . .	2	Curtains . . . . .	56
Straw-ticks . . . . .	19	Carpets . . . . .	5
Mattress-ticks . . . . .	27	Carpet-strips, hemmed . . . . .	53
Feather-ticks . . . . .	16	Handkerchiefs . . . . .	2
Pillow-ticks . . . . .	55	Suspenders (pairs) . . . . .	114
Bolster-ticks . . . . .	2	Hats trimmed . . . . .	18
Sheets . . . . .	488	Ox-blankets . . . . .	2
Pillow-cases . . . . .	485	Articles repaired . . . . .	18,358

### 30. Upholstery done in the Year.

Hair-mattresses made, new materials . . . . .	15
Hair-mattresses made, new ticks . . . . .	83
Hair-mattresses overhauled, hair repicked . . . . .	22
Husk-mattresses made, new materials . . . . .	12
Husk-mattresses made, new husks . . . . .	8
Husk-mattresses overhauled, with increase of husks . . . . .	20
New husk under-beds made, new materials . . . . .	15
Old under-bedticks filled with new husks . . . . .	108
Hair-pillows made, new materials . . . . .	20
Hair-pillows overhauled, hair repicked . . . . .	12
Hair-pillows repicked, and put in new ticks . . . . .	18

*31. Annual Cost of Gas,*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61 . . . . .	\$2,030 39	314.26	\$6 46
1861-62 . . . . .	2,085 29	313.80	6 64
1862-63 . . . . .	2,109 02	355.63	5 93
1863-64 . . . . .	2,069 79	357.63	5 78
1864-65 . . . . .	1,653 05	342.40	4 82
1865-66 . . . . .	1,107 98	376.35	2 94
1866-67 . . . . .	1,056 16	401.03	2 63
1867-68 . . . . .	1,022 51	413.41	2 47
1868-69 . . . . .	903 92	405.10	2 23
1869-70 . . . . .	915 30	408.83	2 23
1870-71 . . . . .	1,048 99	421.90	2 47
1871-72 . . . . .	980 94	428.72	2 28
1872-73 . . . . .	1,006 61	437 23	2 30
1873-74 . . . . .	1,066 74	469.54	2 27
1874-75 . . . . .	1,012 63	475.35	2 13
1875-76 . . . . .	1,089 82	474 21	2 29
1876-77 . . . . .	1,033 59	476.16	2 17
1877-78 . . . . .	1,066 02	442.43	2 41
1878-79 . . . . .	1,033 05	436 73	2 37
1879-80 . . . . .	945 00	450.51	2 10
1880-81 . . . . .	949 65	451.79	2 10

The hospital has always been supplied with gas by the Northampton Gas-Light Company. Until April 1, 1879, the price was \$3.25 per thousand cubic feet, with an additional charge for meter-rent. Since that time it has been but \$3.00, including meter-rent, and, during the last year, with a discount of 5 per cent.

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## 32. Trustees of the Northampton Lunatic Hospital.

NAME.	Residence.	When app'ted.	Service ended.	From what Cause.
Charles E. Forbes *	Northampton .	1856	1857	Term expired.
Lucien C. Boynton .	Uxbridge . .	1856	1858	do. do.
Eliphalet Trask .	Springfield . .	1856	1875	do. do.
John C. Russell *	Great Barrington,	1856	1859	Resigned.
Horace Lyman . .	Greenfield . .	1856	1857	Removed.
Charles Smith . .	Northampton .	1857	1860	Resigned.
Luther V. Bell *	Somerville . .	1857	1859	do.
Zebina L. Raymond *	Greenfield . .	1858	1859	do.
Franklin Ripley *	Greenfield . .	1859	1860	Died in office.
Edward Dickinson *	Amherst . . .	1859	1864	Resigned.
Walter Laffin *	Pittsfield . .	1859	1866	Term expired.
Silas M. Smith . .	Northampton .	1860	1863	do. do.
Charles Allen . .	Greenfield . .	1860	1861	Resigned.
Alfred R. Field *	Greenfield . .	1861	1864	do.
Edward Hitchcock .	Amherst . . .	1863	1879	do.
Silas M. Smith . .	Northampton .	1864	-	Still in office.
Edmund H. Sawyer *	Easthampton .	1864	1879	Died in office.
Henry L. Sabin . .	Williamstown .	1866	1876	Term expired.
Adams C. Deane . .	Greenfield . .	1875	-	Still in office.
Henry W. Taft . .	Pittsfield . .	1876	-	do. do.
William M. Gaylord,	Northampton .	1879	-	do. do.
Lyman D. James . .	Williamsburg .	1879	-	do. do.

\* Deceased.

*33. Officers and Employés.*

Time employed March 1, 1881.

NAME.	Years.	Months.	Days.
Pliny Earle, M.D., Superintendent . . . . .	16	7	26
Edward B. Nims, M.D., 1st Ass't Physician, . . . . .	12	2	14
Daniel Pickard, M.D., 2d Ass't Physician . . . . .	8	10	22
Walter B. Welton, Clerk . . . . .	15	—	14
Asa Wright, Farmer . . . . .	23	8	—
Danford Morse, Engineer . . . . .	16	—	7
Robert H. Gallivan, Supervisor . . . . .	7	10	11
Lucy A. Gilbert, Supervisor . . . . .	14	—	18
F. Josephus Rice, Steward . . . . .	22	4	24
Mary Ward, Seamstress . . . . .	10	6	3
Nell Russell, Laundress . . . . .	8	11	8
Charles Ziehlke, Baker . . . . .	18	6	—
Frances C. Earle, Assistant Clerk . . . . .	8	11	6
Atlanta J. McPhee, Assistant Supervisor . . . . .	5	5	12
Stella Allis, Assistant Seamstress . . . . .	—	1	29
Minnie J. Howes, Assistant Laundress . . . . .	2	9	19
Perry Davis, Attendant . . . . .	11	4	16
Thomas Powers, Attendant . . . . .	6	11	11
James Neill, Attendant . . . . .	5	7,	21
Walter Pillinger, Attendant . . . . .	6	9,	29
Michael Powers, Attendant . . . . .	2	10	6
Allen M. Towne, Attendant . . . . .	1	6	10
Willard C. Ellis, Attendant . . . . .	1	7	—
Eugene C. Wilbur, Attendant . . . . .	—	11	26
Richard F. Neill, Attendant . . . . .	2	7	16
George E. Rood, Attendant . . . . .	—	4	14
Joseph E. Rood, Attendant . . . . .	—	1	21
Luke Belville, Attendant . . . . .	—	1	6
Maria E. Graves, Attendant . . . . .	13	1	7
Martha R. Harris, Attendant . . . . .	6	6	7
Jane McGuire, Attendant . . . . .	5	10	3
Nellie M. Henchy, Attendant . . . . .	5	2	2
Mary Ransom, Attendant . . . . .	5	3	15
Victoria S. Pillinger, Attendant . . . . .	4	8	9
Cora Woodward, Attendant . . . . .	4	4	10
Cecile Riel, Attendant . . . . .	4	4	23
Minnie J. Guilfoil, Attendant . . . . .	2	5	24
Maggie F. McKenna, Attendant . . . . .	1	11	9
Mary C. McKenna, Attendant . . . . .	1	9	26
Maria F. Parker, Attendant . . . . .	—	10	15
Naomi A. Griffin, Attendant . . . . .	—	9	21
Bessie J. Burnham, Attendant . . . . .	—	9	15
Ellen C. Potter, Attendant . . . . .	—	4	21
William C. Hall, Assistant Engineer . . . . .	15	5	17
Nicholas Riel, Night Engineer . . . . .	5	2	25
Andrew N. Thorington, Watchman . . . . .	10	1	30
Sifroi Belville, Carpenter . . . . .	10	10	7
Waldy Tetro, Carpenter . . . . .	7	11	23
Walter Tower, Carpenter . . . . .	4	8	—
Alfred Parenteau, Painter . . . . .	15	6	18



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## *Officers and Employés — Concluded.*

NAME.	Years.	Months.	Days.
David Mercier, Coachman . . . .	4	—	14
Charles Egen, Assistant Baker . . .	3	5	4
Benjamin Rockwell, Assistant Farmer .	13	9	—
John Mercier, Assistant Farmer . . .	13	8	—
Elson E. Howes, Assistant Farmer . . .	3	11	23
Julius Freeman, Assistant Farmer . . .	3	7	24
Henry Wilson, Assistant Farmer . . .	1	10	8
Erie L. Ditty, Assistant Farmer . . .	—	9	26

Nine of the persons have not been in their present situations during the whole period of service; for example, the supervisors, the assistant supervisor, and the seamstress were formerly attendants.

Twelve of the persons have been employed more than once. In these instances the table gives the total time of service.

**TWENTY-SEVENTH ANNUAL REPORT**

**OF**

**THE TRUSTEES**

**OF THE**

**STATE LUNATIC HOSPITAL**

**AT NORTHAMPTON,**

**FOR THE YEAR ENDING SEPTEMBER 30, 1882.**

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**BOSTON :**  
**WRIGHT & POTTER PRINTING CO., STATE PRINTERS,**  
**18 POST OFFICE SQUARE.**  
**1883.**



## OFFICERS OF THE NORTHAMPTON LUNATIC HOSPITAL.

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### TRUSTEES.

HON. WILLIAM M. GAYLORD,	NORTHAMPTON.
SILAS M. SMITH, Esq.,	NORTHAMPTON.
ADAMS C. DEANE, M.D.,	GREENFIELD.
HENRY W. TAFT, Esq.,	PITTSFIELD.
LYMAN D. JAMES, Esq.,	WILLIAMSBURG.

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### RESIDENT OFFICERS.

PLINY EARLE, A.M., M.D.,	SUPERINTENDENT.
EDWARD B. NIMS, M.D.,	ASSISTANT SUPERINTENDENT.
DANIEL PICKARD, M.D.,	FIRST ASSISTANT PHYSICIAN.
DAVID G. HALL, M.D.,	SECOND ASSISTANT PHYSICIAN.
WALTER B. WELTON,	CLERK.
JOHN MERCIER,	ACTING FARMER.
DANFORD MORSE,	ENGINEER.

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### TREASURER.

PLINY EARLE,	NORTHAMPTON.
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Office at the Hospital.

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### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN,	MALE SUPERVISOR.
LUCY A. GILBERT,	FEMALE SUPERVISOR.
F. JOSEPHUS RICE,	STEWARD.
MARY E. WARD,	SEAMSTRESS.
MINNIE J. HOWES,	LAUNDRESS.
CHARLES ZIEHLKE,	BAKER.



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# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

Another official year in the history of the Northampton Lunatic Hospital having expired, we, its Trustees, have the honor to present to you our twenty-seventh annual report, which gives an account of the proceedings of that period.

The special object of the institution being the custody, the care and the restoration to health of persons afflicted by disease, it would appear to be our first duty to show to what extent those objects have been attained. This is done in a general way in the following brief summary.

The number of patients in the hospital on the 1st of October, 1881, was, of men, 229, and of women, 234; making a total of 463. The number admitted in the course of the official year was, of men, 62, and of women, 62; a total of 124. Consequently the whole number who, during the last twelvemonth, have received the benefits of this institution, is 587, of whom 291 were men and 296 women.

In the course of the same period, and not including deaths, 38 men and 52 women, a total of 90, were discharged.

The whole number of deaths was 38, of which 24 were of men and 14 of women.

On the 30th of September, 1882, the closing day of the official year, the number of patients in the hospital was, of men, 229, and of women, 230; a total of 459. The daily average number of patients for the year was 461. The largest number in the house on any day was 469, on the 2d



## 8 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

of December, and again on the 24th of May ; and the smallest number on any day, 452, on three days in March, soon after the discharge of 10 female patients who were transferred to the State's receptacle at Tewksbury.

Of the 90 patients who left the hospital, the mental condition at the time of discharge was recorded as recovered in 28, much improved in 13, improved in 21, unimproved in 27, and not insane in 1.

For further particulars in regard to the medical history of the institution during the year, we beg leave to refer you to the more detailed report of the Superintendent, which is hereto appended.

Notwithstanding the obstacles against which we have been obliged to contend, among which are an advance in the price of meats to a point unparalleled even during the recent civil war, or within the last fifty years, an increase of the cost of flour, butter and some other articles of daily consumption, and the perhaps still greater drawback of the very remarkable drouth of July and August, which resulted in a very important diminution of the products of the farm and the garden, the regular income of the hospital was sufficient not only to defray its current expenses, but to continue, to a very considerable extent, the series of improvements of the premises in which we have heretofore been engaged.

In our last year's annual report we gave an account of the introduction, in the course of that official year, of a steam fire-pump, with its accompanying apparatus, as a further security against conflagration. A subterranean reservoir for a sufficient body of water to supply that pump in case of necessity had then been begun, but, not being completed, it was not mentioned. It was finished later in the autumn. It is circular, sixteen feet in diameter, and fourteen feet eight inches deep from the spring of the dome ; and the arch of the dome adds five feet to this depth. The whole structure is of brick, and has a capacity of about eight hundred barrels. Excepting a few inches at the surface, the excavation for it was through a solid layer of " hard-pan."

The gradual encroachment of Mill River upon the meadow west of the hospital building, now one of the most fertile and productive sections of the farm, was mentioned in a

former report, together with a statement of the preventive measures which had then been taken. In the autumn of 1882 this preventive work, which consisted of ripraps upon the southern bank of the river, was resumed, and prosecuted until prevented by the frosts of early winter. Two sections of the slope of the river bank, making a total length of four hundred and sixty-five, and an average width of about twenty-two feet, were entirely covered with rocks, as closely laid as possible. As will be perceived, the quantity of stone required was very large. Much labor was also expended in grading and filling in the bank, in order to produce a uniform and proper slope, as well as a suitable bed for the rocks. The work was well done, and, so far as it has gone, forms a barrier which apparently places that part of the meadow in security against future floods. There are other sections which will require similar protection hereafter.

One of the most expensive improvements made in the official year was the construction of a dam, together with the grading and other necessary work, for a pond intended to supply the hospital with ice. The water of Mill River, the source upon which the institution was formerly dependent for this now apparently necessary article of consumption, having become the receptacle of many impurities, it was thought unfit to be used as a beverage, and for the last two years the supply of ice for drinking purposes was purchased at an inland pond, about a mile from the hospital. Having what was considered a good site for a pond upon the premises, and only about half a mile from the hospital, we decided it best to take advantage of it. The dam, as constructed, is a specimen of strong, substantial and carefully performed stone masonry and earthwork, the duration of which is to be measured, not by the life of a man, but by the existence of an institution. The flowage will be equal to about one acre, with an average depth of perhaps four feet. The pond will be supplied by several small but permanent springs, and the surface water of perhaps fifty acres of land.

The meadow above mentioned lies low, is partially surrounded by hills of steep declivity, and is so situated that some twenty acres near its southern extremity could formerly be reached by teams only by a very circuitous route. One of

## 10 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

the first pieces of extra work of the current warm season was the making of a new road down the declivity near the pump-house. This road shortens the distance from the barn to that section of the meadow by more than one-half, and thus greatly facilitates the work of cultivating that portion of the farm.

The location of the road near the sand-pit, at the south-westerly corner of the meadow and near the public highway, has been altered, shortening the distance to that part of the meadow, and lessening the grade of the descent of the hill. The rough and unsightly land between the new and the old site is reduced to a gentle and uniform slope, very greatly improving the appearance of the place.

A new road has been laid out through the north grove, more remote from the hospital than the one now in use. It is intended for the heavy traffic of teams engaged in the agricultural department of the institution, as they pass between the out-buildings and the north-easterly section of the farm. The trees which stood upon the proposed roadway have been felled, and some of the rocks removed. It is hoped to make the way passable before the close of the calendar year.

A concrete sidewalk, nearly nine hundred feet in length and five feet wide, has recently been laid beside the road running from the hospital, over the east lawn, toward the entrance gate. It meets the similar walk which was laid three years ago, and thus completes a continuous foot-path of the kind from the village to the front door of the building. Other parts of the grounds around the hospital, the barn and the stable, have been improved in a similar way.

The lightning-rods originally placed upon the hospital buildings were of iron. They had become, by long exposure, so rusty as to be, if not utterly worthless, unworthy, at least, of confidence as a means of protection. Under these circumstances we believed it most prudent to replace them by a surer safeguard. This has been done by putting up very nearly four thousand feet of a cylindrical copper rod, made by James Fiske & Co., which, judging from appearances, has no superior in the market.

The Superintendent, in view of the prospective needs of the insane of the four western counties of the Commonwealth, has, in his report, suggested a means by which those necessities can be supplied. The proposition for an increase of room to meet this already growing want, by the erection of a building upon the southerly part of these premises, is one that commends itself to our judgment, and receives our approbation.

The annual report of the Treasurer has been presented to our board, and, having been audited, is hereto appended.

From the balances of the accounts it appears that, at the close of the official year, Sept. 30, 1882, there were : —

The reserve fund, . . . . .	\$10,000 00
And cash assets available for future use, . . . . .	27,111 54
<hr/>	
Total, . . . . .	\$37,111 54
And liabilities (bills payable), . . . . .	5,712 84
<hr/>	
Balance in favor of the hospital, . . . . .	\$31,398 70

Besides the *cash* assets, there were on hand *purchased* provisions and supplies estimated to be worth \$16,697.65, as well as all of the yet unconsumed products of the farm and the garden.

The actual *earnings* of the hospital during the official year were : —

For State patients, . . . . .	\$28,284 29
town patients, . . . . .	40,178 59
private patients, . . . . .	15,188 17
<hr/>	
Total, . . . . .	\$83,651 05

In January last, Mr. Asa Wright, the well and widely known Farmer of the institution, resigned his office in consequence of failing health. He was elected to that office before the hospital was opened for the reception of patients, and had the immediate charge of the farm twenty-four years. The skill with which he managed it throughout that long period, has been so generally recognized as to need no setting forth in this place.

## 12 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

The other administrative officers who were here a year ago still remain in charge. Their number has been increased by the election, in July last, of Dr. David G. Hall, as an addition to the medical staff. Dr. Nims now holds the office of Assistant Superintendent.

In the corps of subordinate officers there has been but one change since our last report. Mrs. Ellen R. Sawyer has resigned the place of laundress, and it is now filled by Minnie J. Howes.

The institution and all of its affairs are in a condition no less satisfactory than at the time of our last report.

WM. M. GAYLORD.  
S. M. SMITH.  
ADAMS C. DEANE.  
HENRY W. TAFT.  
LYMAN D. JAMES.

NORTHAMPTON, Oct. 5, 1882.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1882.

Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant superintendent, . . . . .	" 1,500 00
First assistant physician, . . . . .	" 900 00
Second assistant physician, . . . . .	" 600 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk-hire and paid to a clerk, . . . . .	" 200 00
Clerk, . . . . .	" 900 00
Farmer, . . . . .	" 480 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 30 00
Supervisor (male), . . . . .	" 35 00
Supervisor (female), . . . . .	" 25 00
Assistant supervisor (female), . . . . .	" 18 00
Seamstress, . . . . .	" 29 00
Assistant seamstress, . . . . .	" 14 00
Laundress, . . . . .	" 16 00
Assistant laundress, . . . . .	" 16 00
Baker, . . . . .	" 46 00
Assistant baker, . . . . .	" 20 00
Steward, . . . . .	" 54 17
Assistant steward, . . . . .	" 35 00
Attendants (male) (2), . . . . .	" 30 00
Attendant (male) (1), . . . . .	" 28 00
Attendant (male) (1), . . . . .	" 25 00
Attendants (male) (6), . . . . .	" 23 00
Attendant (male) (1), . . . . .	" 21 00
Attendants (female) (12), . . . . .	" 18 00
Attendant (female) (1), . . . . .	" 16 00
Attendants (female) (3), . . . . .	" 14 00
Night-watch (female), . . . . .	" 18 00
Housework, centre (female) (2), . . . . .	" 15 00
Cooks (female) (2), . . . . .	" 15 00
Assistant cook (male) (1), . . . . .	" 15 00
Assistant cook (female) (1), . . . . .	" 14 00
Farmers' dining-room (female) (1), . . . . .	" 14 00
Watchman, . . . . .	" 30 00
Carpenter, . . . . .	per day, 2 25
Carpenter, . . . . .	" 2 00

## 14 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

Painter, . . . . .	per month, \$50 00
Assistant engineer, . . . . .	" 32 00
Night engineer and gardener in summer, . . . . .	" 30 00
Coachman, . . . . .	" 25 00
Farm hand (1), . . . . .	" 28 00
Farm hands (4), . . . . .	" 25 00
Farm hand (1), . . . . .	" 23 00
Farm hand (1), . . . . .	" 21 00

In the warm season we generally hire some farm hands by the day. This year we have four, at \$1.50 per day, without board. They work mostly on improvements of the farm.

---

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1882.

Live stock on the farm, . . . . .	\$5,221 00
Produce of the farm on hand, . . . . .	7,123 50
Carriages and agricultural implements, . . . . .	3,740 00
Machinery and mechanical fixtures, . . . . .	9,365 00
Beds and bedding in inmates' department, . . . . .	11,720 50
Other furniture in inmates' department, . . . . .	4,780 41
Personal property of State in superintendent's department, . . . . .	9,406 73
Ready-made clothing, . . . . .	2,197 50
Dry goods, . . . . .	3,656 30
Provisions and groceries, . . . . .	3,853 80
Drugs and medicines, . . . . .	550 00
Fuel, . . . . .	6,440 05
Library, . . . . .	800 00
Total, . . . . .	<u>\$68,854 79</u>

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The subjoined schedule presents the financial condition of the institution for the official year 1881–82, in the form adopted in the next preceding year.

### ASSETS.

Three hundred and forty acres of land, . . . . .	\$40,000 00
Hospital building, . . . . .	250,000 00
Two dwelling-houses, . . . . .	4,000 00
Two barns, . . . . .	5,500 00
Stable, . . . . .	2,000 00
Other buildings, . . . . .	7,000 00
	<hr/> \$308,500 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' Report, . . . . .	\$68,854 79
Reserve fund, . . . . .	10,000 00

### RECEIPTS.

Cash on hand Sept. 30, 1881, . . . . .	\$5,205 38
Received from the State Treasurer, . . . . .	29,196 99
from towns, . . . . .	41,823 28
from individuals, . . . . .	16,327 68
from sales, . . . . .	2,497 21
from interest, . . . . .	752 61
	<hr/> \$95,803 15

### PAYMENTS.

1st. Salaries, wages, and labor, . . . . .	\$26,356 67
2d. Provisions and supplies, viz.:—	
Meats of all kinds, . . . . .	\$6,978 56
Fish of all kinds, . . . . .	1,521 62
Fruit and vegetables, . . . . .	2,395 80
	<hr/>
<i>Amounts carried forward, . . . . .</i>	<i>\$10,895 98    \$26,356 67</i>



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<i>Amounts brought forward,</i>	\$10,895 98	\$26,356 67
Flour and bread, . . . . .	5,443 71	
Grain and meal for table, . . . . .	911 19	
Grain and meal for stock, . . . . .	2,176 27	
Tea, coffee and chocolate, . . . . .	954 85	
Sugar and molasses, . . . . .	2,569 70	
Butter and cheese, . . . . .	4,837 89	
Salt and other groceries, . . . . .	3,281 94	
		31,071 53
3d. Clothing, . . . . .		3,166 79
4th. Fuel and lights, . . . . .		8,024 20
5th. Medicines and medical supplies, . . . . .		1,648 98
6th. Furniture, beds and bedding, . . . . .		4,034 67
7th. Transportation and travelling expenses, . . . . .		346 35
8th. Ordinary construction and repairs, . . . . .		2,490 05
9th. Extraordinary construction and repairs, . . . . .		6,774 48
10th. Real estate (peat meadow), . . . . .		80 00
11th. Miscellaneous expenses, including —		
1. Farm stock, . . . . .	\$1,040 50	
2. Farm supplies, . . . . .	2,534 90	
3. Water, . . . . .	750 00	
4. Minor expenses, . . . . .	468 32	
5. Contingencies, . . . . .	1,027 54	
		5,821 26
		<b>\$89,814 98</b>
<b>LIABILITIES.</b>		
Salaries and wages due Oct. 1, 1882, . . . . .		\$3,500 58
Miscellaneous bills due, . . . . .		2,212 26
		<b>\$5,712 84</b>
Due the institution for board Oct. 1, 1882 :		
from State, . . . . .	\$6,955 46	
towns, . . . . .	11,271 19	
individuals, . . . . .	2,796 72	
interest, . . . . .	100 00	
Due from Treasurer, Sept. 30, 1882, . . . . .	5,988 17	
		27,111 54
		<b>\$21,398 70</b>
<b>SUMMARY.</b>		
Total receipts, . . . . .		\$95,803 15
Total payments, . . . . .		89,814 98
		<b>\$5,988 17</b>
Total liabilities, . . . . .		5,712 84
Total debts due the institution, . . . . .		27,111 54
Total expenditures, . . . . .		89,814 98

Dividing this sum by 461.66, the average number of patients,  
 we have the average expenditure per patient, . . . \$194 56  
 And the average weekly expenditure, per patient, of . . . 3 74

Deducting from the total expenditures, . . . . \$89,814 98  
 The extraordinary expenses, . . . . 6,774 48  


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 We have the current expenses, . . . . \$83,040 50

Dividing \$83,040.50 by 461.66, the average number of pa-  
 tients, we have the average expenditure per patient, . \$179.873  
 Making the average weekly expenditure per patient, . 3.459

Adding to the current cash expenditures, . . . . \$83,040 50  
 The decrease of personal assets, . . . . 958 86  


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 We have the apparent necessary cost for the year, . \$83,999 36

Dividing \$83,999.36 by 461.66, the average number of pa-  
 tients, we have, as the annual cost of each patient, . \$181.95  
 Making the average weekly cost of each patient, . . 3.498

PLINY EARLE, *Treasurer.*

NORTHAMPTON, Oct. 5, 1882.

Having audited the accounts of the Treasurer, we find every entry  
 justified by a sufficient voucher.

ADAMS C. DEANE.  
 WM. M. GAYLORD.

OCTOBER 5, 1882.

## SUPERINTENDENT'S REPORT.

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*To the Trustees of the Northampton Lunatic Hospital.*

The annual official report of an institution for the insane, if strictly confined to its legitimate object, a narrative and statistical exposition of the proceedings and results of the official year which it covers, soon becomes almost as uniform and fixed in its general features and character as "The Farmers' Almanac, by Robert B. Thomas," and perhaps quite as monotonous. The writers of those periodical missives may persistently rack their brains in the search for diversity or novelty, but the fruits of their labor are rarely abundant. They may alter the arrangement of subjects as much as they please in the endeavor to produce an apparent variety, but, after all, the same ground must be gone over, and what is at first view gained by such change is more than counterbalanced by the loss in systematic arrangement. "The Farmers' Almanac" would not be greatly improved by a reversal of the order of months, beginning with December and ending with January, or by any alternate, promiscuous, or haphazard selection of them, to be placed in the order of succession. Nature's order of sequence in the months is the best.

There is, in the treatment of the affairs of a public institution like this, a natural and logical sequence of subjects, but little if any less determined than that of the order of time, and he who attempts to disregard it, does so to the detriment not of himself alone, but also of his readers, — if he be sufficiently fortunate to have any. The horse at the primitive cider-mill of our fathers, and the prisoner upon the steps of a tread-mill will both find it to their interest to pursue their course patiently, agreeably to the "inevitable

logic of events," rather than to attempt to reverse the order of things or to arrange them promiscuously in the hope to avoid monotony.

For the reasons given I begin my subject at its beginning, by a tabular statement of the movement of the population of the hospital, and the general results, in regard to the patients, of the proceedings of the official year.

*1. General Statistics, 1881-82.*

	Males.	Females.	Totals.
Patients in hospital, Oct. 1, 1881, . . . . .	229	234	463
Admitted within the year, . . . . .	62	62	124
Whole number of <i>cases</i> within the year, . . . . .	291	296	587
Discharged within the year, . . . . .	62	66	128
Viz., as recovered, . . . . .	13	15	28
as much improved, . . . . .	4	9	13
as improved, . . . . .	7	14	21
as unimproved, . . . . .	14	13	27
as not insane, . . . . .	0	1	1
Deaths, . . . . .	24	14	38
Patients remaining Sept. 30, 1882, . . . . .	229	230	459
Viz., supported as State patients, . . . . .	85	76	161
as town patients, . . . . .	118	126	244
as private patients, . . . . .	26	28	54
Number of different <i>persons</i> within the year, . . . . .	289	291	580
admitted, . . . . .	61	58	119
recovered, . . . . .	13	15	28
Daily average number of patients, . . . . .	230.52	231.14	461.66

The whole number of admissions within the year was, of men 62, and of women 62; a total of 124. This is the number of *patients* or *cases* admitted, and it is worthy of remark that the two sexes were equal.

One of the men and 3 of the women were admitted twice each, and consequently the 4 *persons* appeared as 8 *patients*. This reduced by 4 the number of *persons* admitted. Another woman, who was in the hospital at the beginning of the official year, was discharged twice, as unimproved, and admitted twice in the course of the year, and is now here. As she was admitted twice she counted as 2 *patients* admitted. The number of *persons* admitted was thus further reduced by 1. Hence the number of *persons* admitted

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was 119, or less by 5 than the number of *patients* or *cases* admitted.

Of the *persons* admitted, 61 were men and 58 women.

Including those who were already present at the beginning of the year, the whole number of *patients* in the house, in the course of the year, was 587, of whom 291 were men and 296 women. One of these, a man, was discharged and again admitted. He was thus counted as 2 *patients*. The total number of *persons* in the house within the year was thus diminished by 1. The woman above mentioned, who was here at the beginning of the year, but was discharged twice and admitted twice within the year, was, in regard to the whole number in the house, counted *three* times. Although but 1 *person* she was 3 *patients*—1 as being here at the beginning of the year, and 2 more by her duplicate admissions. The number of *persons* was thus reduced by 2. The 4 other *persons* admitted twice each within the year, as mentioned above, were counted as *eight* patients. Thus, the total number of *persons* was still further reduced by 4. Consequently the whole number of *persons* in the house within the year was smaller by 7 than the whole number of *patients* or *cases*. The whole number of *persons* was 580, of whom 289 were men and 291 women.

Of all the *persons* admitted twice each, no one was discharged as recovered on the first of those two admissions.

Of the 119 *persons* admitted, 20, or nearly one-sixth of the whole, have been treated at the hospital more than once each. Thirteen of them, of whom 8 were men and 5 women, have been admitted twice each; 1 woman three times; 1 man and 2 women five times each; 1 man six times; 1 man nine times; and 1 woman thirteen times. The two last-mentioned are brother and sister.

Of the 13 who have been here twice each, 4 men and 1 woman, a total of 5, were discharged recovered on their first admission. Two men and 2 women were discharged as much improved; 2 women as improved; and 2 men as unimproved.

The woman who has been admitted three times, was discharged recovered on both the first and the second admission.

Of the 3 who have been here five times each, the man was discharged as recovered twice, and improved twice; one wo-

man as recovered four times ; and the other as unimproved four times.

The man who is here for the sixth time, was discharged as recovered on every one of the first five admissions.

The man who has been received nine times, had been, previously to the last admission, discharged as recovered four times and improved four times.

The woman who has been here thirteen times, had, before the last admission, been discharged as recovered nine times, and as improved three times.

From these statistics it will be perceived that, in the course of the official year, no less than 12 persons were received who had, in some preceding year, been discharged as recovered, and that the whole number of those recoveries was 33.

The number of *patients* or *cases* admitted, was larger by one than in the next foregoing year ; but the number of *persons* admitted was smaller by one. The number remaining in the hospital at the close of the year is less by 4 than it was at the end of September, 1881. This reduction was not the result of what may be termed the natural movement of the institution's population ; but was caused by the transfer of 10 of the female patients to the State's receptacle at Tewksbury.

The daily average number of patients in the hospital exceeded by 10 that of the next preceding year, notwithstanding the removals just mentioned. The constant tendency to an accumulation of patients permanently resident in the charitable establishments of the Commonwealth is thus once more illustrated.

#### STATUS OF PATIENTS.

At the time of admission into the hospital of the patients received in the course of the official year, the Commonwealth assumed the responsibility for the maintenance of 40 of them. The cost of support of 65 was charged to cities and towns ; and that of 19 to the agents, guardians or relatives of the individuals respectively. Subsequently, these expenses were transferred from the State to cities and towns in four instances, and from an individual to a town in one.

The interests of the Commonwealth, as well as of the cities and the towns, in relation to this matter, are very carefully

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guarded by the agents to whom the business is entrusted. While, on the one hand, the Superintendent of Indoor Poor, with his agents, is constantly engaged in the search for "settlements," to the end that the treasury of the State shall not be burdened with expenses which, under the law, do not belong to it, the overseers of the poor are ever watchful, perhaps quite enough so, to protect the cities and towns from any cost which will be paid from any other source. From this opposition of interests often springs a protracted struggle in the attempt at adjustment, and, as seen from the point of view of this hospital, the officers of the State are often put to no inconsiderable labor and expense by the unwillingness of the city and town authorities to acknowledge a settlement which is sufficiently apparent to a disinterested person.

The whole number of patients discharged, whether by the proper authorities or by death, was 128. The support of 42 of these was drawn from the State. That of 64 was paid by cities and towns, and that of 22 from private funds.

Four hundred and fifty-nine patients remained in the house at the close of the official year. One hundred and sixty-one of these are wards of the State, and 244 of cities and towns; while 54 derived their support from their own property or other private sources.

The gradual but sometimes rapid change which for many years has been constantly taking place in the relative proportion of the different classes of patients, as was shown somewhat in detail in the report for 1880-81, still continues. Its most striking characteristic, for the last few years, is the diminution of the beneficiaries of the State and the increase of those of cities and towns. The following table exhibits the weekly average of the several classes in each of the last two official years :

	1880-81.			1881-82.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, .	96.84	83.98	180.82	88.71	78.13	166.84
Town patients, .	101.63	112.52	214.15	112.78	125.46	238.25
Private patients, .	29.73	27.46	57.19	28.98	27.53	56.52

It is here shown that the average number supported by the State was reduced by fourteen from that of the next preceding year, while that of the town patients was augmented by twenty-four. The difference in the average number of private patients in the two years is very small.

#### RECOVERIES.

*Judging in accordance with our standard of mental health, and our opinions in regard to the extent to which, in individuals, that standard is modified by temperament, idiosyncrasy, education and habits*, there were twenty-eight patients who left the hospital in the course of the official year, whose condition was such that they might safely be recorded as recovered. Thirteen of them were men and fifteen women. No one was discharged as recovered more than once, and consequently the number of *persons* was the same as that of *patients*. With but a single exception, all the recoveries took place in persons who were inmates of the hospital for the first time. This is an occurrence so unusual as to be worthy of remark. In the exceptional case the patient, a woman, was here upon her thirteenth admission. She had previously been discharged twelve times, nine times as recovered, and three times as improved. She has now contributed ten recoveries to the statistics of the institution, and as her disease has established a character of recurrence, it is not improbable that these contributions will be continued.

The number of recoveries exceeded that of the next preceding year, and was equal to 23.93 per cent. of the *persons* admitted. Regarded as a whole they were, perhaps, what is termed "better" recoveries than those of the foregoing year. In a fair proportion of them the return to a normal mental condition appeared to be perfect, and gave good promise of the stability and permanency of that condition. But, as usual, there were quite enough of which this cannot truthfully be said. In five or six instances the disease is sure to return, if the lives of the persons are much prolonged; and in several others a recurrence of it would be no occasion for surprise. No one of those who were discharged recovered has yet returned to the hospital; but in one of the most favorable and most promising cases, the patient suffered



from a relapse within a few months after her removal, and ended her life by suicide at her home.

The number of curable cases admitted was somewhat larger than in any other annual period for several preceding years. It is sincerely to be hoped that this is an indication of a change of practice among the people, whereby persons who are proper subjects for treatment at an institution like this, will be brought to the hospital in an earlier, and consequently more curable stage of the disease. Unfortunately, however, the teachings of long experience induce us to believe that it was the accident, or the incident of the year, rather than a favorable omen pointing to wiser action in the future.

#### DEATHS.

In the experience of institutions for the insane, it is not uncommon to find that, even when no epidemic disease has prevailed, and there has been no unusual number of acute cases terminating fatally, there are years in which the number of deaths is largely — sometimes very largely — increased. For several successive seasons the mortality may be small, but at length there comes a year in which the patients with chronic mania or dementia, the old cases which have long peopled the wards, the debilitated men and women who, with constitutions broken down have still clung to life with a marvellous pertinacity that has defied all professional and non-professional prophecy, succumb to their disease, almost, apparently, as if by common consent, and pass out of earthly existence. There are also years in which, in relation to the subject before us, it may very appropriately be said, that “it is the unexpected that happens,” and the medical record is laden with an accumulation of unanticipated deaths.

The history of the year just closed is marked to some extent with these characteristics, and the mortality was increased, not to a very remarkable extent, but to a point above the average at this institution.

The number of deaths was 38, of which 24 were of men and 14 of women. In no less than nine instances, or nearly one-fourth of the whole number, the disease that terminated life was that common scourge, consumption. There were 4

deaths from epilepsy, 3 from paresis, or the general paralysis of the insane, 2 from the metastasis of erysipelas, 3 from marasmus, 2 from wounds self-inflicted at the hospital, and 1 from a similar wound before the admission of the patient. The remaining 14 were the results of as many different diseases, the record of which may be found in the table of mortality.

As above intimated, the deaths of three of the patients were the consequences of suicidal acts. In two of them, both of them men in whom no tendency to self-destruction was either known or suspected, the act was committed here; but in the other, a woman, it was done at her home. The first two cases were investigated by the Medical Examiner.

The whole number of deaths by suicide committed at the hospital to the present time — twenty-four years from the time it was opened — is 18. In 12 of them the patients were men; and in 6, women. Eleven of them occurred within the first twelve years of the period, and 7 of them in the last twelve. The relative proportion in the two subordinate periods, as compared with the number of patients, differs more widely than is indicated by these numbers. The average number of patients resident in the hospital during the first twelve years was only 347.61, while in the last twelve it was 452.18. Hence we derive the fact that, during the first of these periods, the relative *proportion* of suicides was a trifle more than twice as great as during the last, or as 317 to 154.

The experience of the past year, in relation to the comparative mortality of the sexes, confirms that of most of the antecedent years in the history of the hospital. Of the 291 men-patients treated in the course of the year, 24, or 8.24 per cent., died; but of the 296 women-patients, the deaths were only 14, or 4.73 per cent. Calculated in this way, then, the mortality of the men was nearly twice as great as that of the women. Calculated upon the daily average of patients resident in the hospital, the percentage for men was 10.41, and for women 6.05, the difference being less than by the other method.

In the course of the last twelve official years, the number of deaths was, of men 219, and of women 161; a total of

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370. But the average number of women in the house was larger by about 14 than that of men, consequently the relative mortality was much the largest in men. Had this mortality been as large in women as in men, the deaths of women would have been 222, instead of 161.

Eight of the patients who died were beneficiaries of the State, and 22 of cities and towns, while 8 were supported by private funds.

The table subjoined shows the annual mortality from the opening of the hospital to the close of the official year included in this report.

### *Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1882.*

[OFFICIAL YEAR.	Whole No. of Patients.	Daily Average No. of Patients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Average No. of Patients.
			Men.	Women.	Total.		
1858-59,	313	229.55	7	12	19	6.07	8.27
1859-60,	398	255.96	9	18	27	6.78	10.54
1860-61,	434	314.26	15	15	30	6.91	9.54
1861-62,	442	313.80	9	10	19	4.29	6.05
1862-63,	470	355.28	19	7	26	5.53	7.31
1863-64,	475	357.63	17	30	47	9.89	13.14
1864-65,	469	342.40	17	24	41	8.76	11.97
1865-66,	468	376.35	18	13	31	6.35	8.23
1866-67,	543	401.03	23	24	47	8.65	11.71
1867-68,	565	413.41	25	18	43	7.61	10.40
1868-69,	590	405.10	13	12	25	4.23	6.17
1869-70,	604	408.83	22	11	33	5.46	8.07
1870-71,	616	421.90	16	12	28	4.54	6.64
1871-72,	619	428.72	19	18	37	5.97	8.63
1872-73,	614	437.23	13	8	21	3.42	4.80
1873-74,	626	469.54	14	11	25	3.99	5.32
1874-75,	629	475.35	23	18	41	6.52	8.62
1875-76,	629	474.21	18	19	37	5.88	7.80
1876-77,	603	476.16	21	21	42	6.96	8.82
1877-78,	551	442.43	14	9	23	4.17	5.19
1878-79,	535	436.73	14	9	23	4.29	5.27
1879-80,	569	450.51	17	12	29	5.19	6.44
1880-81,	569	451.79	16	10	26	4.57	5.75
1881-82,	587	461.66	24	14	38	6.47	8.23

As will be perceived from this table, the proportion of deaths exceeded that of any preceding official year since that of 1876-77. It was larger, although not greatly so, than the average.

As calculated upon the whole number of patients under treatment, the mean or average mortality was, —

For the whole period of twenty-four years, . . . . .	5.94 per cent.
For the first twelve years, . . . . .	6.71 “
For the last twelve years, . . . . .	5.16 “
While for the last year the mortality was . . . . .	6.41 “

Calculated upon the daily average number of patients in the hospital it was, —

For the whole period, . . . . .	8.04 per cent.
For the first twelve years, . . . . .	9.28 “
For the last twelve years, . . . . .	6.79 “
While for the last year the mortality was . . . . .	8.28 “

The latter method of calculation is considered as the most accurate. By either method the proportion of deaths in 1881–82 is shown to have exceeded by a fraction the mean mortality of the whole period, as well as of the last twelve years; but was smaller than that of the first twelve years.

The difference between the mortality of the two half periods continues to be remarkable. The actual number of deaths in the first half was 388, and in the last half 370. But the number of patients during the last half was much larger than in the first, and consequently the *proportion* of deaths was much less. Had this proportion in the last half been equal to that of the first, the actual number of deaths would have been 505 instead of 378.

One young woman, laboring at the time of her admission under an acute and apparently fatal disease, was afterwards taken from the hospital, to the end that she might die at home. Her decease occurred not long afterwards. No other patient was removed under similar circumstances within the year.

#### WORSHIP AND ENTERTAINMENT.

On the afternoon of every Sabbath within the year there was an assembly of patients for divine worship in the Chapel, the services, as usual, being generally conducted in irregular rotation by the pastors of several of the churches of different denominations within the town, but in a few exceptional instances by ministers from other places.

In the evenings of no less than two hundred and seventy-

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six secular days, a similar assembly gathered for purposes which are indicated by the following table : —

### SCHEDULE OF EXERCISES IN THE CHAPEL.

#### 1. EXERCISES ON THE SABBATH, —

Divine worship, . . . . . 52 days.

#### 2. EXERCISES ON SECULAR]EVENINGS, —

##### (a) *Readings, opened and closed with music : —*

The Bible, . . . . .	26	"
The Bible and selections of prose, . . . . .	8	"
The Bible and selections of poetry, . . . . .	21	"
Miscellaneous selections of prose, . . . . .	73	"
Miscellaneous selections of poetry, . . . . .	66	"
Miscellaneous selections of prose and poetry, . . . . .	50	"

##### (b) *Lecture, opening and closing with sacred music : —*

On astronomy, . . . . .	1	"
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##### (c) *Other entertainments : —*

Pictures shown with the stereopticon, . . . . .	6	"
Concerts of vocal and instrumental music, . . . . .	4	"
Concert and recitations, . . . . .	1	"
Recitations, . . . . .	2	"
Exhibition of ventriloquism, . . . . .	1	"

##### (d) *Social Gatherings : —*

Quadrille parties, . . . . .	17	"
No assembly, . . . . .	37	"

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Total, . . . . .	365	days.
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As will be perceived, there were but thirty-seven days within the year upon which no gathering of the inmates took place. I know of no other similar institution, either in the United States or in foreign countries, in which such assemblies are of so nearly constant occurrence. The practice in this respect differs very greatly. In some institutions the patients are *never* thus called together; while in others the frequency with which it is done varies from the extreme just mentioned to the opposite, which, as is here assumed, is shown by the record of this hospital. There is perhaps a no less diversity in the character of the exercises. There are hospitals at which there are no assemblies for purposes other than worship, and, on the other hand, there are those at

which there are none except for social recreation and amusement. These differences have their origin in part in the temperament, the opinions and the beliefs of the officers of the respective institutions, in part in the class of society from which the patients are mostly drawn, and in still other part, in the habits, tastes, manners and customs of the people among whom the different establishments are situated. Insane men and women, wherever they may be, are generally interested, entertained and amused by the same influences which interested, entertained or amused them before they became insane. For this reason, and with a knowledge of the characteristics of the several nationalities, no reasonable person would expect to find uniformity of practice in this department of what is called moral treatment, in the institutions of the Germans, the French, the English, the Scotch, the Irish, and the Americans. So far as the nature of the exercises is governed, in the institutions of any given country, by the personality of the Superintendent — and this is, undoubtedly, to a very great extent — it may be assumed that, how much soever they may differ in different institutions, these exercises are, at each one of them, such as, in the opinion of that officer, will best minister to the wants and necessities of his patients, and thus most largely contribute to their satisfaction, and promote their restoration to mental health.

#### FARM.

Of the twenty-four agricultural seasons which have passed since the hospital went into operation, no preceding one was so unfavorable for products of the farm and the garden as that of 1882. It opened with the promise of sufficiency, if not of abundance, and was faithful to that promise until near the close of June, although, at that time, all vegetation was unusually backward.

In the early days of July began a drouth which, for duration and severity, is almost, if not quite, without a parallel in this region. It continued through two long, and, to the agriculturist, very dreary months, with but one relieving fall of rain in sufficient quantity to reach the roots of vegetables; and in that exceptional instance the ground was wet to a depth of but from three to four inches. Covering, as it

did, so long a period of the most important time of growth, the effect of the drouth could not fail to be otherwise than disastrous. The twenty-acre garden, near the hospital, never before had so sorrowful an aspect, and the chief wonder is that, despite the scorching sun and the dearth of water, it could still furnish enough of kitchen vegetables to preserve, to some extent, the semblance of the summers of the past.

The grass roots were well preserved through the winter, and the first growth of nearly all that was mown in June was as large as in any former year. That which was cut later was mostly deficient in quantity. Still the quantity of the product of hay fell short by only about eight tons of that of 1880, the largest crop ever produced upon the premises. But the after-growth was an almost utter failure. In 1880 the harvest of rowen was thirty-eight tons; this year it was six tons. This deficiency of one of the best of milk-producing foods will be felt during the coming winter.

In no one of the next preceding three years was the product of potatoes less than 3,000 bushels; this year it was 1,200 bushels.

Of apples there are more than in 1881, but nothing like the enormous harvests of 1878 and 1880. This is one of nature's alternate productive years; but, though blossoms were plentiful, the fruit did not set abundantly, there was a large falling of it when small, and subsequently another falling, enforced by the drouth.

#### LIST OF PRODUCTS.

Hay (first growth of home farm), 124½ tons, at \$17, . . .	\$2,112 25
Hay (after-growth of home farm), 6 tons, at \$17, . . .	102 00
Hay (south lot), 27½ tons, at \$17, . . .	467 50
Hay (Clarke orchard), 12½ tons, at \$17, . . .	212 50
Corn-fodder, dry, 12 tons, . . .	60 00
Oat-straw, 5 tons, . . .	60 00
Corn, 125 bushels, . . .	112 50
Potatoes, 1,200 bushels, . . .	960 00
Oats, 200 bushels, . . .	100 00
Broom-seed, 25 bushels, . . .	15 00
Broom-brush, 500 pounds, . . .	30 00

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*Amount carried forward, . . .* \$4,281 75

<i>Amount brought forward,</i>	<i>\$4,231 75</i>
Carrots, 175 bushels,	70 00
Beets, 600 bushels,	300 00
Onions, 150 bushels,	150 00
Turnips, 275 bushels,	110 00
Parsnips, 60 bushels,	30 00
Beans, Lima, in shell, 61 bushels,	123 00
Beans, common, in shell, 28 bushels,	28 00
Beans, string, 31 bushels,	62 00
Beans, Lima, dry, 2 bushels,	8 00
Pease, green, in pod, 36 bushels,	69 75
Sweet corn, green, in ear, 112½ bushels,	112 50
Tomatoes, 52½ bushels,	52 50
Lettuce, 103 bushels,	97 25
Cucumbers, 31 bushels,	31 00
Squashes, summer, 28 bushels,	32 50
Squashes, winter, 1½ tons,	72 00
Melons, 1,420 pounds,	21 30
Asparagus, 21½ bushels,	64 50
Pie-plant, 57 bushels,	71 25
Cabbages, 2,000 heads,	140 00
Currants, 17 bushels,	51 00
Apples, 500 barrels,	1,000 00
Pears, 4 bushels,	12 00
Quinces, 2 bushels,	6 00
Veal, raised here, 488 pounds,	52 48
Pork, 14,414 pounds,	1,153 12
Figs sold, 96,	306 50
Figs, roasting, 2,	5 00
Turkeys, 51 pounds,	8 70
Chickens, 37 pounds,	5 90
Heads and plucks,	23 50
Eggs, 109 dozen,	29 86
Milk, grass-fed, 20,492 quarts,	1,024 60
Cider, 40 barrels,	80 00
Calf-skins,	6 25
Young calves sold,	38 50
Wood sold,	289 50
	<hr/>
	\$9,970 21

The deficiency from the next preceding year, in the total valuation of products, as here presented, is \$1,606.07; but this by no means represents the actual reduction of value for home consumption, because many of the products are appraised, this year, at a higher money value than they were in 1881. Setting aside apples, of which this was the bearing year, and consequently cannot properly be compared with



the foregoing year, *as affected by the drouth*, and appraising the products of the two years at the same cash value, the deficiency this year, as compared with the last, is not less than \$3,000.

The herd of swine upon the premises has always been a prominent feature in the agricultural department of the establishment. Much attention has been paid by the farmer to the improvement of this stock. The "Hospital Breed" has become favorably known in the surrounding country, to such an extent that it has generally been impossible to supply the demand for pigs.

The number of hogs fattened and slaughtered in the course of the official year was twenty-eight. The weight of each, when killed and dressed, is given in the following list: 622, 512, 538, 582, 598, 525, 581, 488, 595, 455, 555, 358, 460, 492, 698, 492, 590, 543, 667, 502, 462, 412, 481, 340, 570, 336, 488, 472. The largest weighed 698 pounds, the smallest 336. The average weight of the largest ten of them was 603 pounds, and that of the largest five, 636 pounds. The aggregate weight of the whole was 14,414 pounds. This was not so large by about 1,200 pounds as the product of the next preceding official year; but in that year the number of animals slaughtered was larger by five than in the year covered by this report.

The quantity of pork produced is, perhaps, a sufficiently accurate indicator of the development of the farming operations during the last eighteen years. In the five official years from 1864-5 to 1868-9, inclusive, the average product was 7,069 pounds; whereas in the same number of years from 1877-8 to 1881-2, inclusive, it was 14,554 pounds. The quantity was more than doubled. The product of the last year not only furnished all the lard used in the hospital, but left a surplus of over 800 pounds. This, together with about 500 pounds of salt pork, has been sold.

Calves are rarely, and only for exceptionally good reason, raised; and but very few are kept until of sufficient age for slaughter. They are generally sold when quite young, on the presumption that the milk which they would consume is more valuable, for hospital purposes, than the meat which

they would produce. This accounts for the smallness of the quantity of veal in the foregoing list.

The quantity of milk which can properly be considered as a *direct* product of the farm was, as is above stated, 20,492 quarts. This is but one-fourth of the actual quantity produced, which was 81,968 quarts. It is estimated that three-fourths of this was derived from the hay, grain and roots grown upon the farm, and the value of which had already been placed in the list. If a farmer could sell a bushel of corn for a dollar, then sell the milk produced from that corn for another dollar, then sell the butter produced by that milk for seventy-five cents, and finally sell the manure derived from the consumption of the corn for twenty-five cents, he might properly consider his corn well marketed. He could complacently congratulate himself upon the profits of his business, and lift the mortgage from his farm — if there was one to be lifted. And yet we occasionally meet, in the annual reports of public institutions, lists of farm products made out precisely upon that principle.

The stock now upon the premises consists of 8 horses, 8 oxen, 1 bull, 31 cows, 1 heifer, and 132 swine, together with about the usual number of domestic fowls.

#### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1880-81, with the exception of changes necessary for its adaptation to present circumstances. The form and the language are preserved, in the belief that no alterations in these respects could increase the brevity of the article, and, at the same time, retain its comprehensiveness and its clearness of statement.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board-bills of its patients, and the small sum of ten dollars each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last-mentioned source during the past year were eighty dollars.

For the entire support of State patients, including clothing

and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is the compensation fixed by statute law. One hundred and sixty-one, or a trifle more than one-third, of the inmates now belong to this class. During the past year the weekly average of them was 36 per cent. of the whole.

For town patients it has received, and now receives from the treasuries of the towns respectively in which these patients have legal settlements, the same sum per week as from the State treasury for State patients; but the towns clothe their patients, and remunerate the hospital for damages done by them. More than one-half of the inmates are now in this class. The weekly average of them for the year was nearly 52 per cent.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1882, was \$5.069 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 12 per cent., or about one-eighth of the whole.

The average weekly pay per capita charged by the hospital for all its patients—State, town and private—in the course of the year, is \$3.484. Such are the pecuniary resources of the institution. We turn to the results of

#### THE FINANCE OF THE LAST SEVENTEEN YEARS.

In April, 1865, the hospital was freed from debt, and the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the 1st of June, 1867, it received a direct bonus from the State of \$5,000 in two appropriations, for specific purposes, — one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to about one hundred and fifty acres, the total cost of which was

\$25,670. The State then has in this way alone been overpaid for its bonus in the sum of \$20,670.

The amount paid by the hospital for repairs and improvements in the course of the seventeen years, from Sept. 30, 1865, to Sept. 30, 1882, is \$200,986.91.

The surplus of cash assets now on hand, including the reserve fund, is \$31,398.70, or \$31,096.66 larger than it was on the 30th of April, 1865.

The *purchased* provisions and supplies, including fuel and stored clothing, now on hand, are estimated to have cost \$16,697.65. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$14,197.65.

The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums the account of debt of the Commonwealth to the hospital appears to be as follows:—

Excess of cost of land over direct bonus, . . . . .	\$20,670 00
Repairs and improvements, . . . . .	200,986 91
Excess of present cash assets, . . . . .	31,096 66
Increase of provisions and supplies, . . . . .	14,197 65.
Increase of furniture, . . . . .	8,000 00
Total, . . . . .	<u>\$274,951 22</u>

The necessary current repairs of the buildings may be estimated at \$3,000 annually. Deducting this sum for each of the seventeen years since Sept. 30, 1865, a total of \$51,000, there is a remainder of \$223,951.22. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely upon direct appropriations from the treasury of the Commonwealth.

In connection with the above exposition, it may be interesting to know to what extent the tax-payers of the State have contributed to the institution. From a list, furnished by the State treasurer, of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act

authorizing its erection down to the present day, it has cost the people of the Commonwealth only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).

#### PROSPECTIVE IMPROVEMENTS AND ENLARGEMENT.

Notwithstanding the many alterations, improvements and additions to the hospital since it first went into operation, it has not yet attained that degree of excellence as a complete establishment, of which it is susceptible. Its Trustees and administrative officers need not abandon themselves to despair, in the fear of an approaching time at which there will be nothing to do but to attend to the daily operations of a perfect institution.

The principal building is now in excellent repair. Its condition, internally, is far better than at the time of its opening for the reception of patients, although it was then considered as completed. The floors of all the halls, with but one exception, as well as of many of the single rooms and the larger dormitories, have been relaid in a much better style than at first, and numerous other changes have been made which improve the appearance and increase the convenience of the edifice. The ventilation was always good, though not of the best. It has been bettered by the placing of the large ventilators upon the roof, and is now really deficient only in the third or retreating section of either wing, and even there not greatly so. The halls in those sections have no window at either end, but are closed by partitions with doors by which entrance is gained to adjoining apartments. At the eastern extremity, those apartments are occupied each by three attendants. The halls are not only deficient in ventilation but, particularly those of the northerly wing, are not well lighted.

*Change in the Third Halls.*—The most important structural change still desirable within the building, is in these "third halls," and for the reasons alleged. By a removal of the partitions between them and the adjoining attendants rooms, making those rooms in each instance a part of the hall, each hall, at its easterly end, would have the additional light and increased facility of ventilation furnished by two

large windows. By a more expensive alteration each hall might be extended, at its westerly end, to the "fourth hall," throwing the two into one; and, by the removal of the wall enclosing a lodging room for one patient, even to the outside wall of the building, where there is now one window, but where there might be two, corresponding with those at the eastern extremity. These changes being made, the third halls would be some of the pleasantest and most healthful in the hospital. But the making of them would require the sacrifice of rooms now occupied by twenty-four persons, eighteen attendants at the eastern extremity and six patients at the western. This reduction of accommodations can hardly be afforded at the present time; and hence it will probably not be expedient to make the change until after the construction of the "annex" soon to be mentioned.

*Mattress shop, Wood-room, &c.* — All of the beds and mattresses used in the hospital are made and repaired upon the premises, not less than nine-tenths of the work being done by patients. The room now used for this purpose is in the basement, and was not originally intended for use otherwise than as a store-room. Its ceiling is low, and the ventilation imperfect. A further and quite as great an objection to it is that it is beneath the patients' halls. The only approach to it is through some of those halls, which are consequently soiled by the carrying of materials. Worse still, the fine dust from the hair and husks finds its way into the halls, covering floors and furniture, and rendering the air unwholesome. It is much to be desired that a larger, more convenient and more healthful shop should be constructed.

The farm now supplies, and, if properly managed, will continue, for time indefinite to supply, all the wood required in the bakery. It is, therefore, the best economic policy to continue the use of wood, instead of substituting it by coal, as a fuel in that department. But the only suitable place for the wood is, like the mattress-shop, in the basement of the north wing. There are very serious objections to such a store-room so situated; and a better one in a safe place would relieve responsible officers of no little anxiety.

A room for the housing of two large hose-reels, at a place easily and quickly accessible from every part of the hospital

occupied by men, is another desideratum. The place where they are now stored is needed for other purposes.

In view of these several deficiencies, and still others of minor importance, I would invite your board to the consideration of the expediency of erecting at no distant day, in the vicinity of the scullery, a brick building two or three stories in height, within which all the wants mentioned or alluded to might be supplied.

*Annex.*—About twenty-seven years ago, when this hospital was in process of construction, one of the newspapers or western Massachusetts advocated a suspension of the work upon it because it would never be needed. Since that time not only has this building been completed and occupied for twenty-four years by an average of more than four hundred patients, but other similar institutions, with accommodations for no less than eighteen hundred more insane persons, have been erected by the Commonwealth. All of these are now essentially full, and the call for still more is beginning to be heard. This hospital has already become inadequate to the needs of the most westerly four counties of the State; and the time is rapidly approaching at which some further provision must be made, or the policy already begun of removing its surplus population to the more easterly establishments must be continued. But those establishments will soon become so crowded as to be incapable of receiving them. New structures must inevitably be erected somewhere; and it appears to me that not only the most proper, but the most economical course to be pursued by the State government is, to give to these western counties all of their required accommodations of this kind within their own limits. Assuming that such will be the decision of the State authorities, the question immediately arises, By what method shall further provisions be supplied? Shall the Northampton Hospital be enlarged, or shall a smaller institution be established in another place? Prior to an attempt to answer these questions, permit me, in order to prevent any misunderstanding, to express my belief in the superiority of small institutions over large ones, wherever, as here, all classes of the insane are domiciled together under one roof, and that, if there were to-day no institution of the kind within the State, and

it were necessary immediately to construct a number of them sufficient for the three thousand insane persons now confined in our hospitals, I would do it by ten or twelve establishments judiciously distributed throughout the State, and not by the five large ones as and where they now exist. By such distribution one of them would be placed in Northampton. The questions may now be answered as I would answer them; and this shall be done without an elaborate argument.

This hospital may be so enlarged as to give to it *the combined advantages of both a large and a small institution*. This should be done, not by an addition to the present building, but by an "annex," not directly affixed, but, in the phrase formerly much used by the Germans, *relatively united* to it. A new block, designed very nearly as if it were to be an independent establishment, but without barn or stables, might be erected upon the so-called south lot, which consists of the two tracts of land purchased a few years ago—one of Mr. Welton and the other of the late Capt. Samuel Parsons. This lot contains not far from fifteen acres, and is an extension of the hill or ridge upon which the hospital now stands. All of it is under cultivation, and upon the two sides adjoining the roads it is enclosed by an iron fence. It is believed that in all western Massachusetts there is no fitting situation more beautiful than this, or combining greater facilities for the easy and economical administration of a hospital for the insane. Its location is salubrious, its water supply sufficient and readily obtained, its perfect drainage of easy accomplishment. Not the least of its advantages, in a pecuniary point of view, is the fact that it would require comparatively little grading.

The building, if erected, would be almost directly south of the present one, the central front doors of the two being distant, each from the other, about ninety-five rods, or a little more than a quarter of a mile. It should front due east, or very nearly so. The central or administrative block, with one wing or section of a wing\* for either sex, might be first erected, and extensions postponed until they should become necessary. These extensions might consist of additional sections of wings, or of disconnected "cottages," as may be considered the most desirable.



This "annex" being erected and ready for service, should become the "prefix" of the institution. The Superintendent and some of the other officers should reside in it, and here the recent or curable cases should receive their treatment, while those that are chronic and incurable should be domiciled in the present larger edifice.

Such are the outlines of the addition which I would propose for this hospital. It should have its own heating apparatus, kitchen, and perhaps bakery; but, as before intimated, the larger outhouses may be dispensed with. A very large part of the domestic work could be performed by patients judiciously selected from the incurables.

#### STUDIES RELATIVE TO THE CURABILITY OF INSANITY.

A discussion of the extent to which mental disorders are amenable to curative treatment appears to have become an almost stereotyped chapter in the general form of the annual report of this institution. It is to be hoped, it is even believed, that it is not the least useful chapter; and it is no unfounded assumption to claim that it has already been instrumental in the correction of error and the dissemination of truth.

Although briefly touched upon in some of the earlier years, the subject of curability was first somewhat elaborately treated in the report for the official year 1875-76. Within four years from that time the conviction had become so strong in the minds of the members of the State Board of Health, Lunacy and Charity that the long pursued method of reporting the statistics of the hospitals for the insane was so imperfect as, in some respects, to deceive rather than to enlighten, that they proposed for adoption by the institutions within the State an almost entirely new series of tables, the preparation of which they had procured. This proposition was adopted, not alone at the State hospitals, but at the McLean Asylum and the City Asylum of Boston.

The reports of two official years since that time have been published, and those of the third, which has just expired, will doubtless be in print before the commencement of the next session of the legislature. We have already, then, in Massachusetts, the results of a three years' experience under

the new order of things which was introduced in consequence of these discussions. That period is sufficiently long to furnish material from which, as premises, conclusions entitled to a very considerable degree of confidence may be drawn. Drs. Park, Brown and Goldsmith, of the three hospitals at Worcester, Taunton and Danvers respectively, have very courteously furnished me, in advance of publication, with the statistics of those institutions for the year recently elapsed. I propose to pass in review this new material from the four State establishments, and endeavor to ascertain its teachings.

It should be stated that the figures of the statistics relate to *persons* and not to *cases*, the same person not having been counted twice within either year, whatever might have been the number of his admissions. It is possible that, in a few instances, the same person was admitted in more than one of the years; but, if any such there were, the number is not sufficient to materially affect the results.

*1. Admissions of Persons in Three Official Years.*

HOSPITALS.	1879-80.	1880-81.	1881-82.	Totals
Worcester, . . . . .	222	237	304	763
Taunton, . . . . .	184	267	237	688
Northampton, . . . . .	115	120	119	354
Danvers, . . . . .	571	488	507	1,566
Totals, . . . . .	1,092	1,112	1,167	3,371

The principal value of this table is in its exhibition of the progressive increase in the number of *persons* admitted to the hospitals. In the two years intervening between the first and the last report, that increase was seventy-five (75), —twenty (20) in the first year and fifty-five (55) in the second. This ratio of increase, if continued, would double the number of persons admitted as patients in 29.79, or, in round numbers, in thirty years. The population of the State is not increasing so rapidly as that, and consequently, so far as these figures are to be relied upon, the proportion

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of the insane committed to hospitals, as compared to the number of inhabitants of the State, is on the increase.

At Worcester there was a regularly progressive increase in the numbers admitted. At Danvers and Taunton, where fluctuations in this respect were the greatest, the admissions were largely governed by outside influences, not natural but arbitrary. The patients from Boston were sent sometimes chiefly to one of them, sometimes to the other, as circumstances determined.

### 2. Admissions and Recoveries of Persons in Three Years.

HOSPITALS.	Persons Admitted.	Persons discharged Recovered.	Per cent. of Recoveries on Admissions.
Worcester, . . . . .	763	148	19.40—
Taunton, . . . . .	688	148	21.51+
Northampton, . . . . .	354	76	21.47—
Total of three hospitals, . . . . .	1,805	372	20.61—
Danvers, . . . . .	1,566	378	24.15—
Whole number, . . . . .	3,371	750	22.25—

The hospital at Danvers has so recently been opened that it is exceptional, in some respects, as compared with the other three. I have consequently so arranged the table that those three can be considered separately.

The proclamation, — “The best authorities assert that 75 to 90 per cent. of recent cases of insanity are curable,” with which, or with something equivalent, each half-fledged tyro in mental diseases formerly soared into the regions of imaginative psychology, either in his annual report, as a recently installed superintendent, or in some article upon the subject, as a pamphleteer or a writer for the periodicals, is familiar to those who have read these discussions, even though they may not have met it in its original places. Like the “voice of the turtle,” in Palestine, in the spring-time of seasons long gone by, that proclamation was, until within the last three or four years, often “heard in our land;” but now, like the song of Childe Harold, it “hath ceased,” or, at best, “has died into an echo,” like his theme. Yet to him whose faith was challenged by its

reiterated assertion, and whose hope was stimulated thereby into an expectation that all cases might soon be treated in their early stages, the table here presented cannot fail to be sadly and sorrowfully interesting.

It matters little what is asserted *can be* done so long as it is *not* done. To the philanthropist, the humanitarian, the political economist, the tax-payer, even the mere citizen, the important question is, not what is the proportion of the insane that has been alleged, on very flimsy grounds, to be susceptible of recovery, under certain given but often impossible circumstances, but what proportion *do* recover and return to their homes as useful members of society?

By the table just introduced, it is shown that in the course of the three official years ending with Sept. 30, 1882, three thousand three hundred and seventy-one (3,371) *persons* were admitted into the four State hospitals, and seven hundred and fifty (750) *persons* were discharged from them as recovered. The recoveries were 22.25 per cent. of the admissions. Hence, *not one-half, not even one-quarter*, but only *a fraction more than one-fifth* as many *persons* recovered as were admitted. In the oldest three of the hospitals, the most recently erected of which has been in operation twenty-four years, the proportion of recoveries was still smaller, being 20.61 per cent., or almost precisely one-fifth, as compared with the persons admitted.

It is not a little interesting to observe the very near approach to equality of these proportions in the oldest three of the hospitals.

At Danvers, the ratio of recovery was larger. This is sufficiently explained by the fact that at the beginning of the period of three years, that hospital had been in operation less than eighteen months. It was not full, and it was the resort for nearly all of the recent cases of insanity from Boston and the four other cities in its vicinity.

For the purpose of further illustration, I here introduce a table showing the ratio of persons recovered to persons admitted at each institution, in each of the three years respectively.

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### 3. *Percentage of Persons Recovered in each Year.*

HOSPITAL.	1879-80.	1880-81.	1881-82.	For Three Years.
Worcester, . . . .	18.46	21.94	18.09	19.40—
Taunton, . . . .	26.62	21.34	17.72	21.51+
Northampton, . . .	24.34	16.66	23.83	21.47—
At the three hospitals, .	22.65	20.67	18.94	20.61—
Danvers, . . . .	28.89	25.41	17.55	24.15—
At the four hospitals, .	25.95	22.75	18.34	22.25—

Perhaps the most noteworthy information derived from this table is, that at the hospitals as a whole, there was a progressive diminution of the annual proportion of recoveries from the beginning to the end of the period, as shown by the figures 25.95, 22.75, and 18.34. This regular but quite sufficiently rapid falling off in the proportion of persons recovered may be merely incidental and temporary, but nevertheless it is not encouraging. This graded reduction of recoveries took place at the oldest three hospitals, but to a less extent. In the hospitals, as a whole, it was equal to 7.61 per cent. of the persons admitted; in the three oldest hospitals it was only 3.71 per cent., or a fraction less than one-half as much. The greatest diminution, equal to 11.34 per cent. of the persons admitted, was at the Danvers Hospital. The cause of this is readily understood. As the institution became filled to crowding, the current of recent cases which had been flowing to it was, to a certain extent, diverted from its course, and directed toward the other hospitals.

The largest percentage of annual recoveries at any of the oldest three hospitals, in the course of the period, was 26.62, at Taunton, in 1879-80; and the smallest, 16.66, at Northampton, in 1880-81.

It is a delicate matter thus to bring the several institutions into the closest juxtaposition, for the purpose of a comparison of the results of their work. Were it not that I have great confidence in all and each of them it would not be attempted. I regard these four Massachusetts hospitals as among the best of their kind, not in the United States alone, but in the

world; and I most conscientiously believe that they are now under a medical management so good, and so nearly equal, that any insane person who would recover at any one of them would likewise recover at either of the other three.

We now approach a part of the statistics before us, perhaps the most important as well as the most interesting of all, in consequence of their bearing upon the question of the absolute curability of mental disorders. The extreme liability to relapse of a large proportion of the cases recovered from insanity is now very generally known. In some instances the relapse and the recovery occur so frequently that some physicians maintain that there is *no* recovery, but that the disease, during the apparently rational intervals of the patient, is merely in a state of suspense. But, in these cases, it is the almost universal practice at the hospitals, if they are discharged at the subsidence of each returning paroxysm, to discharge them as recovered. As heretofore shown, the recoveries are thus sometimes largely increased beyond the number of persons. In view of these cases, I have often been reminded of the notorious old toper who one day greatly surprised an acquaintance by telling him that he had “left off drinking,” and when the assertion was doubted, reaffirmed its truth, declaring, as undeniable proof of the fact, that he had “left off three times” that morning.

The subjoined table shows the number of persons discharged recovered, and the number of persons readmitted, who had at some former time been discharged as recovered.

*4. — Readmissions of Persons formerly Discharged Recovered.*

HOSPITALS.	Persons Discharged Recovered.	Readmissions of Persons formerly Discharged Recovered.	Proportion of Re-admitted to Discharged.
Worcester, . . .	148	65	1 in 2.28
Taunton, . . .	148	70	1 in 2.11
Northampton, . .	76	43	1 in 1.76
Totals of the three hospitals, . . .	372	178	1 in 2.09
Danvers, . . .	378	66	1 in 5.72
Totals of the four hospitals, . . .	750	244	1 in 3.07

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In the return to their homes of seven hundred and fifty (750) persons recovered from their insanity, the hospitals accomplished a great good. This work of beneficence was, however, as is shown by the table, in one sense partially counterbalanced by the readmission of two hundred and forty-four (244) persons who had previously been discharged as recovered. The percentage of the readmissions on the discharges is 32.53. In other words, very nearly one-third as many formerly recovered persons were taken back from the community, as were given to it by the hospitals. At the three oldest hospitals the proportion was still larger, the number of formerly recovered persons readmitted being very nearly one-half as great as that of recovered persons discharged. At the Worcester Hospital it was a fraction more than two-fifths; at the Taunton Hospital, nearly one-half; and at the Northampton Hospital, more than one-half, or nearly three-fifths.

At the Danvers Hospital three hundred and seventy-eight (378) persons were discharged as recovered, and only sixty-six (66) formerly recovered persons readmitted. The proportion of the returned recovered to the discharged recovered was as 1 to 5.72, or a little more than one-sixth. This, like the heretofore mentioned exceptional results at that institution, is a consequence of its newness. As before mentioned, at the beginning of the three years it had been in operation less than a year and a half, and hence there had not been time for a relapse of any of its recoveries other than in those persons whose disease recurs at short intervals. As will be seen by the table next to be introduced, the numbers of the readmitted recovered, in each of the three successive years, was 18, 17, and 31, respectively, nearly one-half of them being in the last year of the period. As the hospital grows older, this, as well as the other results in its medical history, will approximate more and more nearly those of the three other and more early established institutions.

Before leaving this special topic, it should be remarked that although the Danvers Hospital readmitted but comparatively few of the persons whom it had discharged as recovered, yet it is highly probable that it admitted a no inconsiderable number who had previously been discharged as recovered

from the other three institutions. The early reports give no direct information upon the subject, but within four and a half months from the day the hospital was opened, no less than *forty-three* (43) patients suffering from a *second attack* were received. It is probable that the larger part of these had recovered from the first attack at other institutions. The same may be said of the seventy-three (73) patients with *second attack* admitted in the official year 1878-79, which began at the close of that period of four and a half months. Of these one hundred and sixteen (116) patients, who knows how many had recovered once each, at either Worcester, or Taunton, or Northampton? The number can be ascertained only by an examination of records.

In the first two years of the three years' period to which these statistics refer, the Danvers Hospital admitted one hundred and one (101) patients who had been inmates of the other three hospitals mentioned, but we are not informed of the condition, in regard to recovery, in which they had been discharged from those hospitals.

*5.—Annual Readmissions of Persons formerly Discharged Recovered.*

HOSPITALS.	1879-80.	1890-91.	1891-92.	Totals.
Worcester, . . . .	25	17	23	65
Taunton. . . . .	19	29	22	70
Northampton, . . .	22	10	11	43
Total of three hospitals, .	66	56	56	178
Danvers, . . . . .	18	17	31	66
Totals of the four hospitals,	84	73	87	244

Some of the most important information imparted by this table has already been mentioned. By an examination of the figures in detail it would appear that the number of formerly recovered persons annually readmitted is accidental, or incidental. It follows no law. There is neither a regularly progressive increase nor a regularly progressive decrease.



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The whole number admitted in the first year is smaller by two than that of the last year; but at the oldest three hospitals the number in the first year exceeded by ten that of either of the other years.

So much in regard to the persons who had previously been discharged recovered, but who had returned to the hospitals. It will now be shown that some of those persons had been discharged recovered more than once. This will be done by giving the number of times that all of them (244) had been so discharged.

### 6. Ratio of Recoveries to Persons Recovered.

HOSPITALS.	Readmissions of Persons formerly dis- charged Re- covered.	Number of times they had been discharg- ed Recovered.	Excess of Re- coveries over Persons.	Average Re- coveries to each Person.
Worcester, . . . .	65	160	95	2.46
Taunton, . . . .	70	122	52	1.74
Northampton, . . . .	43	66	23	1.53
At the three hospitals, . . . .	178	348	170	1.95
Danvers, . . . .	66	67	1	1.01
At the four hospitals, . . . .	244	415	171	1.70

Hence it will be perceived that the two hundred and forty-four (244) recovered persons readmitted had been discharged recovered four hundred and fifteen (415) times. The excess of *recoveries* over *persons* is one hundred and seventy-one (171). At the oldest three hospitals the *proportionate* excess is much larger. Their one hundred and seventy-eight (178) formerly recovered persons readmitted had been discharged recovered three hundred and forty-eight (348) times. The excess of *recoveries* over *persons* is one hundred and seventy (170). The number of *recoveries* lacks but eight (8) of being twice as great as that of *persons*. At the Worcester Hospital, much the oldest of the four establishments, sixty-five (65) recovered persons readmitted had been discharged recovered one hundred and sixty (160) times. The excess of *recoveries* over *persons* was ninety-five (95); and the number of *recoveries* nearly twice and a half as great as that of *persons*. At the Danvers Hos-

pital the number of *recoveries* exceeds that of *persons* by only one (1). For reasons already given this result will be understood.

There is one supposable source of error in these statistics of repeated recoveries, and that is the possibility that a person who had been discharged recovered more than once, may have so been discharged in more than one of the three official years. If, for example, a person who had previously recovered three times were discharged recovered in the first year, making his *fourth* recovery, and being afterwards again admitted and discharged recovered in either of the other two years, he would be reported twice in the period, once as having had *three* former recoveries, and again as having had *four*. This would make the number of his recoveries, as represented in the table, *seven*, whereas it had been but *four*. If the table contains such errors, they probably do not increase the totals of repeated recoveries to a greater extent than they are diminished by the admission of persons at Danvers who had previously recovered at the other three hospitals.

This rather minute and detailed analysis of the statistics of recoveries at the Massachusetts State hospitals, is, from my point of view, more than justified by the circumstances under which it is made. The truth of the seven conclusions which were legitimate deductions from the data which, in 1876, I was able to glean from the results of observations and experience under an imperfect method of recording such statistics at the hospitals, was widely doubted. This doubt was no especial cause for wonder, since, in some instances, those deductions differ very greatly from what, even in the minds of well-informed persons, had thitherto been regarded as the truth. To a very considerable extent the doubt has been removed by the articles upon the subject which have appeared in the reports of this hospital since the date just mentioned, but it may still exist in some places.

In Massachusetts a method of record and tabulation expressly designed for the purpose of bringing out from the practical experience of its hospitals the data which would prove or disprove the truth of those conclusions, has been in operation for some years. It was clearly proper that I

should avail myself of the fruits of this crucial test, as I here have done. What are the results? The answers can best be made to appear by the reproduction in brief of several of the conclusions.

*Conclusion 1.* — The reported recoveries are increased to an important extent by repeated recoveries of the same persons. .

This is proved by Table 6, where it is shown that at the three oldest hospitals one hundred and seventy-eight (178) *persons* were discharged recovered three hundred and forty-eight (348) times.

*Conclusion 2.* — The recoveries of *persons* are much less numerous than the recoveries of *patients* or *cases*.

This conclusion is, as a proposition, the converse of the first. Hence, it is proved by the converse of the same statistics. At the three oldest hospitals the number of recoveries of *persons* was one hundred and seventy-eight (178) ; but the number of recoveries of *patients* or *cases* was three hundred and forty-eight (348), or very nearly twice as great as that of *persons*.

*Conclusion 3.* — From the number of reported recoveries of *cases*, or *patients*, it is generally impossible to ascertain the number of *persons* who recovered.

This may also be proved by the same (6) table. Under the old method of reporting in this State, as well as elsewhere, the three hundred and forty-eight (348) *recoveries* at the three hospitals would have been published, without giving any clew to the number of *persons* in whom those recoveries took place. By the new method that number is given, and it is found, in this instance, to be one hundred and seventy-eight (178).

Conclusions 4 and 5 are by their very nature, not susceptible of proof or disproof by these statistics.

*Conclusion 6.* — The (formerly) assumed curability of insanity has been practically disproved by more extensive experience.

By cumulative evidence in Table 2, that disproof is corroborated and strongly fortified. At the four hospitals, 3,371

persons were admitted, and only 750, or a trifle over one-fifth of them, were discharged recovered. This proportion — 22.25 per cent. — is much lower than was even dreamed of in 1876; and he who would then have ventured to assert that such could be the truth, would have been considered as either a Munchausen, an ignoramus, or a proper candidate for an asylum for imbeciles.

It will be perceived that this reduction of the ratio of recoveries is in part due to the rejection of the duplicate and multiple recoveries of the same person, thus giving to each person but one recovery. For all other than strictly technical or medical purposes, this, as has heretofore been stated, is the information wanted.

*Conclusion 7.* — The proportion of recoveries at the hospitals has been constantly diminishing, during a period of from twenty to fifty years.

These statistics cannot prove anything anterior to 1876, when that conclusion was written. But by Table 3 it is demonstrated that, in the four Massachusetts hospitals, the diminution, since 1879, has continued, the progressive reduction being represented by the consecutive annual percentages — 25.95, 22.75, and 18.34. The proportion of recoveries in the year just elapsed is a little less than three-fourths as large as it was three years ago, in the official year 1879–80.

Very clearly, if insanity is to be diminished, it must be by prevention and not by cure.

*One more Illustration.* — With the foregoing exposition I might, perhaps, very appropriately close forever these published studies of the subject of the curability of insanity. If the arguments which have been used, and the illustrative proofs which have been adduced, in the course of a seven years' discussion, have been insufficient to procure conviction of the truth of the conclusions published in 1876, it is not probable that anything will have the power to convince. It was once intimated that there were minds which would not "be persuaded though one rose from the dead." Others like them there may be at the present time.

There is, however, one hitherto unused illustration furnished by the history of one of the American hospitals, that

I cannot well forbear to present in the present connection. It corroborates the testimony of the experience at the Massachusetts hospitals during the last three years, and emphasizes the force of it.

The epidemic fever of opinion in favor of "good" — thereby meaning, as practically translated, — "expensive" hospitals, which raged throughout the decennium from 1865 to 1875, or thereabouts, will be but too well remembered. It left, for Massachusetts, its own elephantine monument upon Hathorne Hill, in such fashion that it is not likely soon to be forgotten by the people of the Commonwealth, and, at the same time, similarly perpetuated its memory in other States. Of all the excessively costly curative institutions which were the products or outgrowths of that temporary craze, the Hudson River Hospital, at Poughkeepsie, New York, is, if I mistake not, the most remarkable for its costliness. Danvers is but a pigmy as compared with it. It was intended to be the institution of all institutions, destined, so long as it might exist, to stand as a practical and therefore irrefutable proof that lavish expenditure upon hospital buildings can cure insanity.

That hospital was opened on the 20th of October, 1871, and its last published report covers the official year ending with the 30th of September, 1881. At the latter date, it had been in operation ten years, minus twenty days. In the course of that decennium it admitted sixteen hundred and seventy-one (1,671) patients, and discharged as *recovered* three hundred and fifty-three (353). The percentage of recoveries, as compared with the admissions, is 21.12, or a fraction more than one-fifth.

In view of this result at the Hudson River Hospital, one of the most prominent men engaged in the work connected with the charities of the State of New York, writes to me as follows: — "If any additional evidence of the correctness of your conclusions in regard to the curability of insanity is needed, it is furnished in the ten years' experience of this most expensive of institutions 'established presumably for cure.'"

The very near approach to identity in the results at Poughkeepsie and at the Massachusetts hospitals, may arrest

the attention of the reader. The proportion of recoveries was, —

At the Hudson River Hospital, . . .	21.12 per cent.
At the four Massachusetts hospitals, . . .	22.25 “
At the oldest three Massachusetts hospitals, . . .	20.61 “

But there is a difference in the computation of these ratios which operates pretty largely in favor of the Massachusetts institutions. The statistics of Massachusetts relate only to *persons*; those of Poughkeepsie to *patients*, or *cases*. The Hudson River Hospital gets the advantage of all the repeated recoveries of the same person, which, like all other institutions of the kind, it must have had; whereas at the Massachusetts hospitals, these were all rejected.

*A Moment abroad.* — Had it not been for the analysis of the Massachusetts statistics, several other appropriate topics furnished by both the United States and Europe, would have been noticed. As it is, I must pass them by, with but two exceptions upon the other side of the Atlantic.

In my annual report, one year ago, there was a notice of the statistics of the Morningside Asylum, at Edinburgh, Scotland. It appears that, from a misunderstanding in regard to the patients who had suffered more than one attack, I was led to erroneous conclusions. It was stated that of the 347 patients admitted, 108 were readmitted after recovery from one or more former attacks. This was a mistake, of which the acknowledgment and the correction give me more pleasure than the assertion. The 108 should have been 63. But I will let Dr. Clouston make the full correction in his own language.

“The asylum discharged [in 1880] 165, but it had taken back, altogether, of persons who had been discharged, *recovered* and *unrecovered*, 80. Of this 80, 63 had recovered in former years, showing that *there is a considerable part of the inmates of asylums whose brain condition being unstable, they come in and go out frequently*. But out of the 267 first admissions there were 97 first recoveries.”

My most cordial thanks are due to the doctor. He acknowledges, in the language which I have italicized, that

his own statistics show precisely what I have been attempting to prove for the last half-dozen years.

I am now indebted to the doctor for his very interesting report for the year 1881. In this the recoveries for the year are reported in a manner differing from that of the next preceding year, and by that difference the report becomes more lucid. The number of admissions in the course of the year was 339, of which 247 were for the first time, while 92 were readmissions. I here copy, in full, the table of recoveries.

*Persons Recovered in 1881.*

	Males.	Females.	Total.
A. Recovered for the first time, . . . . .	45	48	93
(a.) Readmitted, and again discharged recovered, . . . . .	-	4	4
(b.) Readmitted, but not again discharged recovered, . . . . .	6	3	9
B. Had made one or more recoveries in previous years, . . . . .	31	34	65
(a.) Readmitted, and again discharged recovered . . . . .	-	-	-
(b.) Readmitted, but not again discharged recovered . . . . .	7	4	11
Number of persons recovered, . . . . .	76	82	158
Number of cases of recovery, . . . . .	76	86	162

The whole number of *persons* who recovered within the year was 158 : 93 of these recovered for the first time. But after their discharge as recovered, four of them were readmitted and again discharged recovered. They made two recoveries each within the year. Nine more of them were readmitted, and, at the end of the year, still remained in the asylum. Although discharged recovered, and counted among the recoveries, they came back within the year.

The remaining 65 of the *persons* who were discharged as recovered, did *not* recover for the first time ; but each one of them had recovered once or more in previous years. Of these 65 who were discharged recovered within the year, 11 came back, and were still in the asylum at the expiration of the year.

Summing the two classes, it appears that of the 158 persons discharged recovered within the year, 24 relapsed and were readmitted within the year. Four of them were discharged recovered a second time within the year, and 20 (9 + 11) were still in the asylum at the close of the year.

I have thus put the information in the table into the language of words for the benefit of those who have no taste for the language of numerals. It is a lucid showing, so far as it goes, but it would have been more satisfactory if we had been told *how many recoveries* the 65 *persons* had made in previous years. The movement of the population of the asylum is quick, and the making of repeated or multiple recoveries is evidently more rapid than in any one of the Massachusetts hospitals,

*British Medico-Psychological Association.*—It was mentioned last year that a series of improved and reformatory tables, by which the defects in the method of reporting the statistics of the institutions for the insane would be remedied, had been prepared by a committee and presented for adoption by the British Medico-Psychological Association. After due discussion, it was decided to postpone action upon the subject for one year. At the meeting of the Association in August of the current year, there was another discussion, which ended, at length, in the adoption *for one year*, of the new tables. So far so good—and very good. A prudent caution in driving, even when one knows that he is on the right road, is commendable.

The superintendents of the British asylums will find that the new tables will increase their labor to a no inconsiderable extent; a fact of which no one perhaps is more conscious than they themselves. The work of preparing the statistics of this hospital was increased, probably threefold, by the tables introduced three years ago. But the British superintendents have always put very much more work into their statistics than have the superintendents of the institutions in this country; and hence their labor will not be proportionally increased. But, for them and for us, it is the end that crowns the work, and all upon whom the burden is imposed must look for their reward in the greater revelation of truth, and the immensely enhanced value of their statistics.



## ACKNOWLEDGMENTS.

To those who, in their own homes, have been thoughtful of our inmates, and so far interested in their welfare as to assist in ministering to their entertainment or instruction, we desire, both for ourselves and in behalf of the recipients, to extend our cordial thanks. The printed contributions in this direction which have been received, are as follows : —

Six volumes of Harper's Family Library, a large number of newspapers, and a Christmas box containing many presents for persons in the women's department, from Miss Florence Austin ; a considerable collection of copies of several magazines, from Mrs. J. H. Butler ; a package of religious newspapers from S. E. Bridgman, Esq. ; a quantity of newspapers and other periodicals from Dr. Crittenden ; one copy, weekly of "The Christian Register," from its publishers ; and two copies, weekly, of the "Staaten Zeitung," from its publishers.

The contributions by personal presence and performance consisted of a lecture on Astronomy, by George W. Horr, Esq. ; several exhibitions of stereoptic pictures, by Dr. T. W. Meekins ; a "reading" and a concert of vocal music, each by several members of the Junior Class in Smith College ; three vocal and instrumental concerts by Miss Longley and Miss Rice, with readings at one of them by Miss Stevens, and at the other by Mr. Williams ; and a concert by the members of the choir of the Edwards Church.

## OFFICIAL CHANGES.

The three physicians who, at the beginning of the official year, constituted the medical staff of the institution, still remain in office. By the action of your board, at its meeting in July last, the number of the staff was increased to four, by the appointment to the place of Second Assistant Physician, of David G. Hall, M. D., who has satisfactorily performed his duties to the present time. Dr. Nims, at the same time, was appointed Assistant Superintendent ; and Dr. Pickard First Assistant Physician.

By the failing health, and the resignation in January last, of Mr. Asa Wright, the farmer, the hospital was deprived of the services of a valuable officer, and the Superintendent

of an active, energetic and efficient co-laborer. He took the immediate charge of the farm in December, 1857, and, when the institution was organized, received the appointment to the office, which he held continuously until the time of that resignation. The ability with which he conducted its affairs placed him in general reputation in the rank of the ablest farmers of western Massachusetts. More, if not better than this, he was fortunately endowed by nature with the peculiar faculty by which, in his relations with the patients, he was enabled to get along smoothly, and at the same time exercise upon them a favorable influence. It is my pleasure, no less than my duty, to accord to Mr. Wright his share of merit, as one of the agencies by and through which the hospital has attained its measure of success, and of favorable consideration by the people of the Commonwealth.

Thus far, since the beginning of the current calendar year, the place of farmer has been filled by John Mercier, who for fourteen years had been employed upon the premises. He has performed the duties of the position to my satisfaction, and much better, in my opinion, than would have been possible by any man without experience here.

As the drops of rain to the sea, so fall the years into the great ocean of the past. At this point, where one has gone and another cometh, I once more gladly recognize and acknowledge the aid, the sympathy, and the generous consideration of your board, as well as the cordial co-operation of all who are engaged with me in the prosecution of the administrative affairs of the hospital.

PLINY EARLE.

NORTHAMPTON, Oct. 5, 1882.



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## APPENDIX.

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## 2.\* Monthly Admissions, Discharges, and Averages.

MONTHS.	ADMISSIONS.			DISCHARGES, (Including)deaths.)			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1881.</b>									
October, . . .	6	6	12	8	5	13	227.35	235.65	463.00
November, . . .	7	8	15	6	3	9	226.97	238.16	465.13
December, . . .	3	5	8	3	10	13	228.42	236.42	464.84
<b>1882.</b>									
January, . . .	5	5	10	2	6	8	229.71	234.03	463.74
February, . . .	3	3	6	3	13	16	229.61	229.71	459.32
March, . . .	5	6	11	4	4	8	230.39	225.54	455.93
April, . . .	2	5	7	2	4	6	232.93	225.27	458.20
May, . . .	10	6	16	6	3	9	234.13	229.51	463.64
June, . . .	5	2	7	8	7	15	234.43	229.00	463.43
July, . . .	6	9	15	6	3	9	234.19	226.06	460.25
August, . . .	4	5	9	8	3	11	229.71	232.42	462.13
September, . . .	6	2	8	6	5	11	228.40	231.73	460.13
Total of cases, . . .	62	62	124	62	66	128			
Total of persons, . . .	61	58	119	62	65	127			
Daily average for the year, . . .	-	-	-	-	-	-	230.52	231.14	461.66†

## 3. Received on First and Subsequent Admissions.

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	50	52	102	-	-	-
Second, . . . . .	8	5	13	4	1	5
Third, . . . . .	-	1	1	-	2	2
Fourth, . . . . .	1	1	2	-	-	-
Fifth, . . . . .	1	2	3	2	4	6
Sixth, . . . . .	1	-	1	5	-	5
Ninth, . . . . .	1	-	1	4	-	4
Thirteenth, . . . . .	-	1	1	-	9	9
Total of cases, . . . . .	62	62	124	15	16	31
Total of persons, . . . . .	61	58	119	7	4	11

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals were obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

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## 4. Ages of Persons admitted for the First Time.

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Total.	Males.	Females.	Total.
Fifteen years and less, . . . . .	—	3	3	—	1	1
From 15 to 20 years, . . . . .	2	3	5	2	3	5
20 to 25 years, . . . . .	6	8	14	7	7	14
25 to 30 years, . . . . .	9	10	19	7	10	17
30 to 35 years, . . . . .	1	5	6	6	6	12
35 to 40 years, . . . . .	4	4	8	7	4	11
40 to 50 years, . . . . .	10	9	19	13	9	22
50 to 60 years, . . . . .	2	2	4	—	4	4
60 to 70 years, . . . . .	4	3	7	6	4	10
70 to 80 years, . . . . .	2	3	5	1	4	5
Over 80 years, . . . . .	—	—	—	1	—	1
Unknown, . . . . .	10	2	12	—	—	—
Total of persons, . . . . .	50	52	102	50	52	102

## 5. Parentage of Persons admitted.

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTAL.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	1	1	—	—	1	1
New Hampshire, . . . . .	1	1	1	3	2	4
Vermont, . . . . .	—	2	1	—	1	2
Massachusetts, . . . . .	14	17	10	9	24	26
Rhode Island, . . . . .	1	—	—	—	1	—
Connecticut, . . . . .	9	6	3	4	12	10
New York, . . . . .	3	5	1	—	4	5
New Jersey, . . . . .	—	—	—	1	—	1
Virginia, . . . . .	2	1	—	—	2	1
Kentucky, . . . . .	—	1	—	—	—	1
Canada, . . . . .	4	3	4	4	8	7
England, . . . . .	1	1	3	3	4	4
Ireland, . . . . .	22	22	28	27	50	49
Scotland, . . . . .	1	—	2	2	3	2
France, . . . . .	—	—	1	1	1	1
Germany, . . . . .	1	1	3	3	4	4
Poland, . . . . .	1	—	—	—	1	—
Italy, . . . . .	—	—	1	1	1	1
Total of persons, . . . . .	61	61	58	58	119	119

6. *Residence of Persons admitted.*

PLACES.	Males.	Females.	Total.
<b>Massachusetts,—</b>			
Hampshire County, . . . . .	11	10	21
Hampden County, . . . . .	27	26	53
Berkshire County, . . . . .	15	12	27
Franklin County, . . . . .	8	10	18
Total of persons, . . . . .	61	58	119
Cities or large towns,* . . . . .	31	27	58
Country districts, . . . . .	30	31	61
Total of persons, . . . . .	61	58	119

\* Containing not less than 10,000 inhabitants.

7. *Civil Condition of Persons admitted.*

NUMBER OF THE ADMISSION.	Unmarried.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	24	22	46	23	18	41	2	12	14	1	—	1
Second, . . . . .	5	2	7	2	—	2	—	—	—	—	—	—
Third, . . . . .	—	—	—	—	—	—	—	1	1	—	—	—
Fifth, . . . . .	—	1	1	1	1	2	—	—	—	—	—	—
Sixth, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—
Ninth, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—
Thirteenth, . . . . .	—	1	1	—	—	—	—	—	—	—	—	—
Total of persons,* . . . . .	82	25	57	26	19	45	2	13	15	1	—	1

\* One man unknown.



8. *Occupations of Persons admitted.*

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
Journalist, . . . .	1	Teacher, . . . .	1
Clerk, . . . . .	1	Student, . . . . .	1
Book-keeper, . . . .	3	Musician's wife, . . . .	1
Merchant, . . . . .	1	Hotel-keeper's wife, . . . .	1
Manufacturer, . . . .	1	Farmer's wife, . . . .	1
Commercial traveller, . . . .	1	Farmer's daughter, . . . .	1
Dealer in rags, . . . .	1	Laborer's wife, . . . .	4
Druggist, . . . . .	1	Mill operative, . . . .	12
Farmer, . . . . .	8	Mill operative's wife, . . . .	2
Laborer, . . . . .	15	Machinist's wife, . . . .	1
Mill operative, . . . .	6	Whip-maker's wife, . . . .	1
Paper-maker, . . . .	2	Basket-maker's wife, . . . .	1
Machinist, . . . . .	1	Shoemaker's wife, . . . .	1
Mechanic, . . . . .	2	Kalsominer's wife, . . . .	1
Watch-maker, . . . .	1	Cigar-maker's wife, . . . .	1
Carpenter, . . . . .	4	Butcher's wife, . . . .	1
Painter, . . . . .	1	Collier's wife, . . . .	1
Wagon-maker, . . . .	1	House-keeper, . . . .	11
Blacksmith, . . . . .	1	Servant, . . . . .	9
Tinner, . . . . .	1	Laundress, . . . . .	2
Moulder, . . . . .	1	None, . . . . .	4
Butcher, . . . . .	1		
Mason, . . . . .	1		
Cook, . . . . .	1		
None, . . . . .	4		
Total of <i>persons</i> , . . . .	61	Total of <i>persons</i> , . . . .	58

## 9. Reported Duration of Insanity before Last Admission.

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER ADMISSIONS.*			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	8	14	22	—	—	—	8	14	22
From 1 to 3 months, . . . . .	9	9	18	—	—	—	9	9	18
3 to 6 months, . . . . .	1	9	10	—	—	—	1	9	10
6 to 12 months, . . . . .	5	2	7	—	2	2	5	4	9
1 to 2 years, . . . . .	11	7	18	—	1	1	11	8	19
2 to 5 years, . . . . .	9	4	13	5	—	5	14	4	18
5 to 10 years, . . . . .	2	4	6	—	—	—	2	4	6
10 to 20 years, . . . . .	2	2	4	2	5	7	4	7	11
Over 20 years, . . . . .	—	—	—	4	2	6	4	2	6
Unknown, . . . . .	3	1	4	1	—	1	4	1	5
Total of cases, . . . . .	50	52	102	12	10	22	62	62	124
Total of persons, . . . . .	—	—	—	11	6	17	61	58	119
Average of known cases, . . . . .	Yrs. 1 $\frac{3}{4}$	Yrs. 1 $\frac{5}{12}$	Yrs. 1 $\frac{1}{2}$	Yrs. 14 $\frac{2}{11}$	Yrs. 10 $\frac{7}{10}$	Yrs. 12 $\frac{2}{7}$	Yrs. 4 $\frac{3}{58}$	Yrs. 2 $\frac{8}{61}$	Yrs. 3 $\frac{2}{119}$

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated.

## 10. Form of Disease in the Cases admitted.

FORM OF DISEASE.	Males.	Females.	Total.
Mania, . . . . .	37	40	77
Mania, paretic, . . . . .	1	—	1
Mania, epileptic, . . . . .	2	2	4
Typhomania, . . . . .	1	—	1
Melancholia, . . . . .	10	15	25
Dementia, . . . . .	9	4	13
Dementia, senile, . . . . .	1	—	1
Dementia, epileptic, . . . . .	1	1	2
Total of cases, . . . . .	62	62	124
Total of persons, . . . . .	61	58	119

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## 11. Probable Causes of Insanity in Persons admitted.

CAUSES.	Males.	Females.	Total.
<i>Physical.</i>			
Ill-health, . . . . .	4	13	17
Intemperance, . . . . .	13	2	15
Overwork, . . . . .	4	7	11
Epilepsy, . . . . .	3	3	6
Masturbation, . . . . .	6	—	6
Puerperal, . . . . .	—	5	5
Old age, . . . . .	1	2	3
Injury of head, . . . . .	2	—	2
Softening of the brain, . . . . .	1	—	1
Opium eating, . . . . .	1	—	1
Injury, . . . . .	1	—	1
Sunstroke, . . . . .	1	—	1
Amenorrhœa, . . . . .	—	1	1
Change of life, . . . . .	—	1	1
Total of physical, . . . . .	37	34	71
<i>Mental.</i>			
Pecuniary difficulties, . . . . .	4	—	4
Domestic trouble, . . . . .	2	1	3
"Trouble," . . . . .	—	3	3
Religious excitement, . . . . .	1	2	3
Disappointment, . . . . .	—	1	1
Disappointment in love, . . . . .	1	—	1
Loss of husband, . . . . .	—	1	1
Hard study, . . . . .	1	—	1
Fright, . . . . .	1	—	1
Total of mental, . . . . .	10	8	18
Total of physical, . . . . .	37	34	71
Unknown . . . . .	14	16	30
Total of persons, . . . . .	61	58	119

## 12. Relation to Hospitals of the Persons admitted.

	Males.	Females.	Total.
Never before in any hospital, . . . . .	46	49	95
Former inmates of this hospital, . . . . .	11	6	17
Former inmates of other hospitals in this State :—			
Worcester, . . . . .	—	1	1
Former inmates of this hospital and of other hospitals in this State :—			
Worcester, . . . . .	1	—	1
Former inmates of hospitals in other States, . . . . .	1	1	2
Former inmates of this hospital and of hospitals in other States, . . . . .	2	1	3
Former inmates of this hospital, of other hospitals in this State, and of hospitals in other States, . . . . .	—	—	—
Total of persons, . . . . .	61	58	119

## 13. Discharges, classified by Admission and Result.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTAL.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First, . . .	13	14	27	4	7	11	4	14	18	12	11	23	17	11	28	50	57	107
Second, . . .	-	-	-	-	2	2	1	-	1	1	-	1	6	2	8	8	4	12
Third, . . .	-	-	-	-	-	-	-	-	-	-	1	1	1	-	1	1	1	2
Fourth, . . .	-	-	-	-	-	-	1	-	1	1	1	2	-	-	-	2	1	3
Seventh, . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	1
Ninth, . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Thirteenth, . . .	-	1	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1
Total of cases, . . .	13	15	28	4	9	13	7	14	21	14	13	27	24	14	38	62	65	127
Total of persons, . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	62	64	126

One woman was discharged as not insane, making the total cases 128, and the total of persons 127.

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## 14. How supported.

SUPPORTED AS	PATIENTS ADMITTED.			AVERAGE OF THE YEAR.		
	Males.	Females.	Total.	Females.	Males.	Total.
State patients, . . . . .	21	19	40	88.71	78.13	166.84
Town patients, . . . . .	31	34	65	112.78	125.46	238.25
Private patients, . . . . .	10	9	19	28.98	27.53	56.52
Total of cases, . . . . .	62	62	124	-	-	461.61*

\* This, the *weekly* average, is smaller by the fraction of  $\frac{1}{20}$  than the *daily* average, which is 461.66.

## 15. Cases discharged Recovered.—Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESI- DENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . . . .	4	7	11	1	-	1	-	-	-
From 1 to 3 months, . . . . .	2	3	5	4	6	10	2	5	7
3 to 6 months, . . . . .	-	4	4	5	5	10	2	2	4
6 to 12 months, . . . . .	2	-	2	3	3	6	3	7	10
1 to 2 years, . . . . .	3	-	3	-	-	-	4	-	4
2 to 5 years, . . . . .	1	-	1	-	1	1	1	-	1
5 to 10 years, . . . . .	-	-	-	-	-	-	-	-	-
10 to 20 years, . . . . .	-	-	-	-	-	-	-	-	-
Over 20 years, . . . . .	-	-	-	-	-	-	-	-	-
Unknown, . . . . .	1	1	2	-	-	-	1	1	2
Total of cases, . . . . .	13	15	28	13	15	28	13	15	28
Total of persons, . . . . .	13	15	28	13	15	28	13	15	28
Average of known cases (in months), . . . . .	7½	11½	14½	3½	5½	4½	10½	7½	14½

## 16. Cases resulting in Death.—Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital,	—	—	—	—	—	—	—	—	—
Under 1 month,	1	1	2	3	1	4	1	1	2
From 1 to 3 months,	—	—	—	1	1	2	—	—	—
3 to 6 months,	1	1	2	1	—	1	—	1	1
6 to 12 months,	1	—	1	4	3	7	—	—	—
1 to 2 years,	3	5	8	6	3	9	2	1	3
2 to 5 years,	4	4	8	4	1	5	4	2	6
5 to 10 years,	3	—	3	3	2	5	4	3	7
10 to 20 years,	2	—	2	2	3	5	4	3	7
Over 20 years,	1	—	1	—	—	—	1	—	1
Unknown,	8	3	11	—	—	—	8	3	11
Total,	24	14	38	24	14	38	24	14	38
Average of known cases (in months),	68.7 $\frac{1}{8}$	22.4 $\frac{1}{11}$	49.2 $\frac{2}{11}$	45.5 $\frac{1}{24}$	60.1 $\frac{1}{14}$	50.1 $\frac{1}{18}$	114.1 $\frac{1}{18}$	67.1 $\frac{1}{11}$	94.2 $\frac{2}{11}$

## 17. Cases discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Total.	Males.	Females.	Total.
Mania,	8	13	21	6	6	12
Mania, paretic,	—	—	—	1	—	1
Mania, epileptic,	—	—	—	2	—	2
Typhomania,	—	—	—	1	—	1
Melancholia,	5	2	7	1	3	4
Dementia,	—	—	—	8	4	12
Dementia, senile,	—	—	—	1	—	1
Dementia, epileptic,	—	—	—	2	1	3
Dementia, paretic,	—	—	—	2	—	2
Total,	13	15	28	24	14	38

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## 18. Causes of Death.

CAUSES.	Males.	Females.	Total.
<i>Nervous System.</i> —Epilepsy, . . . . .	3	1	4
Paresis, . . . . .	3	—	3
Paralysis, . . . . .	1	1	2
Metastasis of erysipelas, . . . . .	1	1	2
Typhomania, . . . . .	1	—	1
Exhaustion of acute mania, . . . . .	1	—	1
Exhaustion of chronic mania, . . . . .	1	—	1
Mania à potu, . . . . .	1	—	1
<i>Circulatory.</i> —Fatty degeneration of the heart, . . . . .	1	—	1
Disease of heart, . . . . .	—	1	1
Anæmia, . . . . .	1	—	1
<i>Respiratory.</i> —Phthisis, . . . . .	3	6	9
Pneumonia, . . . . .	1	—	1
Congestion of the lungs, . . . . .	1	—	1
<i>Digestive.</i> —Gastritis, . . . . .	—	1	1
Diarrhœa, . . . . .	1	—	1
<i>General.</i> —Marasmus, . . . . .	2	1	3
Old age, . . . . .	—	1	1
<i>Accidental.</i> —Suicide, . . . . .	2	—	2
Result of wound, . . . . .	—	1	1
Totals, . . . . .	24	14	38

## 19. Deaths, classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	1	—	1	1	—	1	2	3	5	3	—	3	7	3	10
Second, . . . . .	—	1	1	—	—	—	—	—	—	1	—	1	1	1	2
Third, . . . . .	—	1	1	—	—	—	—	—	—	—	—	—	—	1	1
Fourth, . . . . .	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1
Fifth, . . . . .	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1
Sixth, . . . . .	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1
Totals, . . . . .	1	2	3	1	—	1	2	6	8	4	—	4	8	8	16

*20. Recoveries, classified by Results of Previous Admissions.\**

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Twelfth,	-	1	1	-	-	-	-	-	-	-	-	-	1	1	-
Total,	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1

\* In all the cases of more than one admission, this classification is based upon the result of the admission next preceding the last, in each case respectively.

*21. Deaths, classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital,	-	-	-	-	-	-
Under 1 month,	1	1	2	2	1	3
From 1 to 3 months,	-	-	-	1	1	2
3 to 6 months,	-	1	1	1	-	1
6 to 12 months,	-	-	-	5	3	8
1 to 2 years,	2	1	3	3	3	6
2 to 5 years,	4	2	6	5	-	5
5 to 10 years,	4	3	7	5	3	8
10 to 20 years,	4	3	7	2	3	5
Over 20 years,	1	2	3	-	-	-
Unknown,	8	1	9	-	-	-
Totals,	24	14	38	24	14	38
Average of known cases (in months,) . . . . .	113 $\frac{8}{13}$	137 $\frac{10}{13}$	124 $\frac{8}{25}$	49	67 $\frac{14}{14}$	55 $\frac{8}{18}$

*22. Ages of those who Died.*

AGES.	AT TIME OF THE FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Total.	Males.	Females.	Total.
Fifteen years and less,	-	-	-	-	-	-
From 15 to 20 years,	-	-	-	-	-	-
20 to 25 years,	2	-	2	1	-	1
25 to 30 years,	4	3	7	2	-	2
30 to 35 years,	1	-	1	4	1	5
35 to 40 years,	1	3	4	4	1	5
40 to 50 years,	4	4	8	2	5	7
50 to 60 years,	1	2	3	2	3	5
60 to 70 years,	2	-	2	4	1	5
70 to 80 years,	1	1	2	3	2	5
Over 80 years,	-	-	-	2	1	3
Unknown,	8	1	9	-	-	-
Totals,	24	14	38	24	14	38



23. *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1882.*

YEARS.	NEW CASES (FIRST ADMISSIONS).											
	ADMITTED.			DISCHARGED AND DIED IN 1881-82.								
	Males.	Females.	Total.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		DIED.
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	
1858, 2 months,	99	129	228									
1858-59, .	42	46	88									
1859-60, .	66	91	157									
1860-61, .	58	46	104									
1861-62, .	61	43	94									
1862-63, .	56	57	113									
1863-64, .	35	30	65									
1864-65, .	54	55	109									
1865-66, .	66	52	118									
1866-67, .	42	69	111									
1867-68, .	54	71	125									
1868-69, .	72	64	136									

[illegible]

23. *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1882.—Concluded.*

YEARS.	READMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1882.					
	ADMITTED.			DISCHARGED AND DIED IN 1881-82.														
				RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		DIED.						
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.			Males.	Females.	Total.	
1858, 2 months,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	5	18
1858-59,	4	1	5	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4
1859-60,	7	3	10	-	-	-	-	-	-	-	-	-	-	-	-	4	2	6
1860-61,	13	7	20	-	-	-	-	-	-	-	-	-	-	-	-	3	1	4
1861-62,	13	5	18	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
1862-63,	14	11	25	-	-	-	-	-	-	-	-	-	-	-	-	1	4	5
1863-64,	12	15	27	-	-	-	-	-	-	-	-	-	-	-	-	1	1	2
1864-65,	16	9	25	-	-	-	-	-	-	-	-	-	-	-	-	4	1	5
1865-66,	9	9	18	-	-	-	-	-	-	-	-	-	-	-	-	5	1	6
1866-67,	19	8	27	-	-	-	-	-	-	-	-	-	-	-	-	2	3	5
1867-68,	14	13	27	-	-	-	-	-	-	-	-	-	-	-	-	3	4	7
1868-69,	12	21	33	-	-	-	-	-	-	-	-	-	-	-	-	7	6	13

[illegible]

One woman discharged as not insane is not included in this table.

## 24. Relapsed Cases admitted in each Year, and discharged in 1882.

YEARS.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.														REMAINING SEPT. 30, 1882.			
	ADMITTED.			DISCHARGED AND DIED IN 1861-82.								Males.	Females.	Total.				
				RECOVERED.			MUCH IMPROVED.			IMPROVED.					UNIMPROVED.		DIED.	
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.		Females.
1855, 2 months,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1858-59,	2	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1859-60,	5	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1860-61,	8	7	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1861-62,	6	2	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1862-63,	5	8	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1863-64,	6	10	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1864-65,	8	4	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1865-66,	4	3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1866-67,	11	6	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1867-68,	8	7	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1868-69,	6	9	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



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## 25. Classed Average of Patients.

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Total.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.88	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	55.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61

## 26. Monthly Consumption of Gas.

MONTHS.	Cubic Feet.	Daily Average.
<b>1881.</b>		
October, . . . . .	33,100	1,067.74
November, . . . . .	39,200	1,306.66
December, . . . . .	45,300	1,461.29
<b>1882.</b>		
January, . . . . .	43,450	1,401.61
February, . . . . .	34,000	1,214.28
March, . . . . .	30,700	990.22
April, . . . . .	22,100	736.66
May, . . . . .	14,650	472.58
June, . . . . .	10,750	358.33
July, . . . . .	11,700	377.42
August, . . . . .	13,950	450.00
September, . . . . .	23,600	786.66
Totals, . . . . .	322,500	883.56*

\* Daily average for the year.

## 27. Supplies for the Several Departments for the Year 1881-82.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Rubber sheets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtains.	Wash-bowls.	Bwers.	Chambers.	Mirrors.	Hair-brushes.	Combs.	Carpet-strips.	Plates.	Cups.	Saucers.	Tumblers.	Mugs.	Bowls.	Pitchers.	Syrup Cups.	Knives.	Forks.	Lanterns.
<i>Men's Department.</i>																											
Upper 1st Hall,	16	6	6	3	1	9	2	14	12	1	1	6	—	1	2	2	6	18	12	30	—	—	4	3	—	1	1
2d Hall,	30	26	6	11	1	6	2	4	4	1	—	22	—	1	3	3	3	15	12	14	—	—	4	2	2	1	—
3d and 4th Halls,	10	40	6	—	—	4	2	6	6	—	—	4	—	1	7	—	12	18	12	—	—	4	1	1	—	—	—
Middle 1st Hall,	16	16	6	3	—	11	1	14	—	1	—	11	—	—	2	—	—	6	14	—	—	—	3	—	—	—	—
2d Hall,	—	16	6	—	—	15	2	8	—	1	—	24	—	—	6	—	—	18	18	3	—	—	3	—	—	—	—
3d and 4th Halls,	26	12	11	2	2	1	3	6	5	1	—	12	—	3	2	—	30	6	6	—	—	—	—	—	—	—	—
Lower 1st Hall,	12	24	—	10	—	8	—	6	1	—	—	9	—	—	3	—	12	—	16	—	—	2	1	—	—	—	—
2d Hall,	12	24	6	—	—	23	—	4	1	—	—	5	1	1	3	—	—	—	51	—	—	2	—	—	—	—	—
3d and 4th Halls,	12	6	—	12	—	6	—	4	—	—	—	4	1	3	4	—	—	—	—	—	—	—	—	—	—	—	—
<i>Women's Department.</i>																											
Upper 1st Hall,	16	16	2	8	—	4	—	18	9	1	1	—	—	—	—	—	—	6	12	6	—	—	3	1	—	—	—
2d Hall,	16	16	8	12	5	1	1	27	9	3	2	6	2	—	2	—	6	—	6	24	—	—	3	3	—	—	—
3d Hall,	—	12	6	10	2	1	1	16	5	1	1	9	—	—	10	2	—	—	6	—	—	2	2	—	—	—	—
4th Hall,	—	2	3	6	—	4	—	6	4	1	1	—	—	—	8	—	6	24	—	—	—	—	2	—	—	—	—
Middle 1st Hall,	26	24	14	12	—	4	2	34	4	1	1	12	—	10	1	—	—	—	6	18	—	—	1	—	—	—	—
2d Hall,	28	12	4	14	—	4	2	16	—	—	—	—	—	12	—	—	—	—	6	—	—	—	1	—	—	—	—
3d Hall,	36	24	2	10	4	11	—	28	—	1	—	15	—	21	—	—	—	—	12	—	—	4	—	—	—	—	—
4th Hall,	12	12	—	8	2	3	—	—	—	—	—	—	—	13	—	30	—	—	—	—	12	—	—	—	—	—	—
Lower 1st Hall,	16	12	—	7	2	1	—	4	8	—	—	6	1	—	1	4	—	—	—	—	—	—	1	—	—	—	—
2d Hall,	24	36	—	20	6	11	—	4	1	—	—	18	—	13	—	12	12	6	—	—	12	4	—	—	—	—	—
3d Hall,	12	24	—	—	—	4	1	4	2	—	—	6	3	—	11	1	—	—	—	3	—	—	—	—	—	—	—
4th Hall,	12	15	—	—	—	3	—	—	3	—	—	—	—	—	5	—	6	—	—	—	—	2	—	—	—	—	—
Kitchen,	7	18	15	6	—	2	—	35	—	—	—	1	—	—	—	—	120	36	42	48	—	42	5	—	36	—	—
Rear,	—	—	—	—	—	—	—	—	12	—	—	—	—	—	—	—	48	—	—	—	—	—	5	—	1	—	—
Centre,	—	—	1	—	—	—	1	18	2	—	—	1	—	—	—	3	48	—	—	3	—	—	—	—	—	—	—
Aggregate,	349	415	96	155	24	143	16	272	91	11	5	180	9	9	138	22	297	129	261	167	90	81	34	5	59	27	5



## 27. Supplies for the Several Departments for the Year 1881-82. — Concluded.

	Spoons.	Glass Casters.	Table-spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish-towels.	Hollers.	Wash-basins.	Soap, pounds.	Brooms.	Whisks.	Just-brushes.	Scrub-brushes.	Just-pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe-brushes.	Spools Thread.	Skein Linen Thread.	Papers Needles.	Papers Pins.	Rubber Chambers.
<i>Men's Department.</i>																										
Upper 1st Hall, . . .	12	4	—	—	—	—	—	6	18	—	54	7	1	2	2	1	—	—	1	10	2	—	—	—	—	—
2d Hall, . . .	—	—	—	—	—	—	—	6	24	—	34	15	2	1	1	—	—	—	1	10	—	—	—	—	2	—
3d and 4th Halls, . .	—	—	—	—	—	—	—	12	24	—	58	20	2	1	3	—	—	—	1	21	—	—	—	—	1	—
Middle 1st Hall, . . .	—	—	—	—	—	—	—	6	18	—	44	19	2	1	2	—	—	—	1	18	—	—	—	—	—	—
2d Hall, . . .	—	—	—	—	—	—	—	6	18	—	36	24	1	1	3	—	—	—	1	24	—	—	—	—	—	—
3d and 4th Halls, . .	—	—	—	—	—	—	—	18	18	—	48	32	3	2	4	—	—	—	5	24	—	—	—	—	—	—
Lower 1st Hall, . . .	—	—	—	—	—	—	—	6	6	—	34	13	1	1	1	—	—	—	3	21	—	—	—	—	—	—
2d Hall, . . .	—	—	—	—	—	—	—	12	6	—	62	18	1	1	1	—	—	—	2	21	—	—	—	—	—	—
3d and 4th Halls, . .	—	—	—	—	—	—	—	7	6	—	62	19	—	1	—	—	—	—	2	15	3	1	—	—	—	—
<i>Women's Department.</i>																										
Upper 1st Hall, . . .	6	—	—	12	—	—	—	—	6	—	26	4	—	—	—	—	—	—	1	—	—	—	—	—	—	—
2d Hall, . . .	—	—	—	—	—	—	—	6	—	—	44	17	1	3	—	—	—	—	1	—	—	—	—	—	—	—
3d Hall, . . .	—	—	—	—	6	12	18	—	—	—	64	13	—	1	—	—	—	—	1	—	—	—	—	—	—	—
4th Hall, . . .	—	—	—	—	—	—	30	6	—	—	44	11	1	1	—	—	—	—	1	—	—	—	—	—	—	—
Middle 1st Hall, . . .	—	—	—	—	—	—	—	6	—	—	54	14	—	2	1	—	—	—	2	—	—	—	—	—	—	—
2d Hall, . . .	4	1	—	—	—	6	6	6	18	—	54	28	—	2	1	—	—	—	2	—	—	—	—	—	—	—
3d Hall, . . .	—	—	—	—	6	6	12	—	6	—	56	21	—	—	1	—	—	—	5	—	—	—	—	—	—	—
4th Hall, . . .	—	—	—	—	—	—	6	6	6	—	52	11	—	—	1	—	—	1	1	—	—	—	—	—	—	—
Lower 1st Hall, . . .	—	2	—	—	—	—	6	—	6	—	54	18	1	—	—	—	—	1	1	—	—	—	—	—	—	—
2d Hall, . . .	—	—	—	—	6	12	12	—	6	—	70	28	—	2	1	—	—	3	2	—	—	—	—	—	—	—
3d Hall, . . .	—	—	—	—	—	—	12	—	6	—	32	6	—	—	—	—	—	1	1	—	—	—	—	—	—	—
4th Hall, . . .	—	—	—	—	—	—	—	6	—	—	10	5	—	—	—	—	—	2	2	—	—	—	—	—	—	—
Kitchen, . . .	12	—	—	—	24	—	—	12	36	—	79	63	1	—	—	—	—	1	1	—	—	—	—	—	—	—
Rear, . . .	—	—	—	—	—	—	—	—	—	—	104	85	6	2	—	—	—	—	4	—	—	—	—	—	—	—
Centre, . . .	—	—	—	—	—	—	—	3	—	—	26	5	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Aggregate, . . .	34	12	—	12	42	36	186	130	192	11	1,262	496	22	25	21	9	39	41	10	152	14	173	6	33	107	13

*28. Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Total.	Women.	Men.	Women.	Total.
<b>1881.</b>								
October, .	610	155	240	395	178	44	284	328
November, .	553	150	223	373	151	52	325	377
December, .	577	155	229	384	184	35	326	361
<b>1882.</b>								
January, .	448	155	223	378	162	26	288	314
February, .	464	112	212	324	180	24	243	272
March, . .	450	124	230	354	170	26	280	306
April, . .	683	120	223	343	150	32	284	316
May, . . .	639	124	251	375	145	53	365	418
June, . . .	702	120	228	348	150	52	366	418
July, . . .	719	124	236	360	142	52	338	390
August, . .	742	124	222	346	143	54	368	422
September, .	687	120	218	338	143	52	380	432
Totals, . .	7,274	1,583	2,735	4,318	1,898	502	3,852	4,354

The patients, whose work is recorded in this table, were employed as many hours in the day as were the employees in each of the several departments respectively. The total number of days' work is 17,844, to which may be added 702 days by men, in the mattress room, making an aggregate of 18,546 days. No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler-room, and the carpenter's shop. A large amount of other work is done both in the halls, and, at irregular times, out of them.

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### 29. *List of Articles made in the Sewing-room.*

Dresses, . . . . .	238	Straw-ticks, . . . . .	70
Chemises, . . . . .	120	Mattress-ticks, . . . . .	69
Drawers, . . . . .	48	Feather ticks . . . . .	3
Skirts, . . . . .	86	Bed-spreads, . . . . .	12
Waists, . . . . .	10	Towels, . . . . .	367
Sacques, . . . . .	18	Towels (roller), . . . . .	292
Night-gowns, . . . . .	15	Table-cloths, . . . . .	11
Hats (trimmed), . . . . .	39	Waiter-spreads, . . . . .	2
Undervests, . . . . .	4	Curtains, . . . . .	78
Shirts, . . . . .	254	Carpets, . . . . .	2
Duck pants, . . . . .	1	Carpet-strips (hemmed), . . . . .	28
Suspenders, . . . . .	157	Clothes-bags, . . . . .	21
Collars, . . . . .	236	Handkerchiefs (hemmed), . . . . .	18
Aprons, . . . . .	164	Spreads (hemmed), . . . . .	64
Sheets, . . . . .	376	Napkins (hemmed), . . . . .	20
Pillow-cases, . . . . .	512	Ox blankets, . . . . .	8
Bolster-cases, . . . . .	18	Holder, . . . . .	672
Pillow-ticks, . . . . .	38	Articles repaired, . . . . .	23,444
Bolster-ticks, . . . . .	3		

### 30. *Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	15
Hair mattresses made, new ticks, . . . . .	44
Hair mattresses made, old ticks, new hair, . . . . .	8
Husk mattresses made, new materials, . . . . .	48
Husk mattresses made, new husks, . . . . .	60
New husk under-beds made, new materials, . . . . .	37
Old under-bedticks filled with new husks, . . . . .	118
Hair pillows made, new materials, . . . . .	20
Hair pillows overhauled, hair repicked, . . . . .	27
Old pillow-ticks filled with new hair, . . . . .	8

*31. Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,080 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00

The hospital has always been supplied with gas by the Northampton Gas Light Company. Until April 1, 1879, the price was \$3.25 per thousand cubic feet, with an additional charge for meter-rent. Since that time it has been but \$3.00, including meter-rent, and, during the last two years with a discount of 5 per cent.

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*32. Trustees of the Northampton Lunatic Hospital.*

NAME.	Residence.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,*	Northampton,	1856	1857	Term expired.
Lucien C. Boynton,	Uxbridge,	1856	1858	do do.
Eliphalet Trask,	Springfield,	1856	1875	do. do.
John C. Russell,*	Great Barrington,	1856	1859	Resigned.
Horace Lyman,	Greenfield,	1856	1857	Removed.
Charles Smith,	Northampton,	1857	1860	Resigned.
Luther V. Bell,*	Somerville,	1857	1859	do.
Zebina L. Raymond,*	Greenfield,	1858	1859	do.
Franklin Ripley,*	Greenfield,	1859	1860	Died in office.
Edward Dickinson,*	Amherst,	1859	1864	Resigned.
Walter Laffin,*	Pittsfield,	1859	1866	Term expired.
Silas M. Smith,	Northampton,	1860	1863	do. do.
Charles Allen,	Greenfield,	1860	1861	Resigned.
Alfred R. Field,*	Greenfield,	1861	1864	do.
Edward Hitchcock,	Amherst,	1863	1879	do.
Silas M. Smith,	Northampton,	1864	-	Still in office.
Edmund H. Sawyer,*	Easthampton,	1864	1879	Died in office.
Henry L. Sabin,	Williamstown,	1866	1876	Term expired.
Adams C. Deane,	Greenfield,	1875	-	Still in office.
Henry W. Taft,	Pittsfield,	1876	-	do. do.
William M. Gaylord,	Northampton,	1879	-	do. do.
Lyman D. James,	Williamsburg,	1879	-	do. do.

\* Deceased.

33. *Officers and Employés.*

Time employed, March 1, 1882.

NAME.	Years.	Months.	Days.
Pliny Earle, M.D., Superintendent, . . . . .	17	7	26
Edward B. Nims, M.D., 1st Ass't Physician, . . . . .	13	2	14
Daniel Pickard, M.D., 2d Ass't Physician, . . . . .	4	10	22
Walter B. Welton, Clerk, . . . . .	16	—	14
John Mercier, Farmer, . . . . .	14	8	—
Danford Morse, Engineer, . . . . .	17	—	7
Robert H. Gallivan, Supervisor, . . . . .	8	10	11
Lucy A. Gilbert, Supervisor, . . . . .	15	—	18
F. Josephus Rice, Steward, . . . . .	23	4	24
Mary Ward, Seamstress, . . . . .	11	6	3
Ella E. Nelson, Laundress, . . . . .	—	6	8
Charles Ziehlké, Baker, . . . . .	19	6	—
Frances C. Earle, Assistant Clerk, . . . . .	9	11	6
Minnie J. Guilfoil, Assistant Supervisor, . . . . .	3	5	24
Fannie R. Sawyer, Assistant Seamstress, . . . . .	—	7	10
Victoria S. Pillinger, Assistant Laundress, . . . . .	5	8	9
Perry Davis, Attendant, . . . . .	12	4	16
James H. Neill, Attendant, . . . . .	6	7	21
Walter E. Pillinger, Attendant, . . . . .	7	9	29
Richard F. Neill, Attendant, . . . . .	4	6	26
Michael W. Powers, Attendant, . . . . .	3	10	6
Willard C. Ellis, Attendant, . . . . .	2	7	—
Eugene C. Wilbur, Attendant, . . . . .	1	11	26
George E. Rood, Attendant, . . . . .	1	4	14
Don F. Boutelle, Attendant, . . . . .	—	9	2
Edward Connors, Attendant, . . . . .	—	8	9
Peter Donahue, Attendant, . . . . .	—	5	20
Maria E. Graves, Attendant, . . . . .	14	1	7
Martha R. Harris, Attendant, . . . . .	7	6	7
Jane McGuire, Attendant, . . . . .	6	10	3
Mary B. Ransom, Attendant, . . . . .	6	3	15
Hannah Merrifield, Attendant, . . . . .	6	2	26
Nellie M. Henchy, Attendant, . . . . .	6	2	2
Cecile Riel, Attendant, . . . . .	5	4	23
F. F. Poor, Attendant, . . . . .	3	4	13
Naomi A. Griffin, Attendant, . . . . .	1	9	21
Mary M. Dudley, Attendant, . . . . .	—	11	16
Edna A. Wales, Attendant, . . . . .	—	11	2
Emma Crowell, Attendant, . . . . .	—	9	—
Jessie A. Rand, Attendant, . . . . .	—	8	11
Laura G. Barrett, Attendant, . . . . .	—	8	4
Barbara McDonald, Attendant, . . . . .	—	7	9
Mary J. McNabb, Attendant, . . . . .	—	7	9
Emily A. Drew, Attendant, . . . . .	—	—	14
Hattie Halladay, Farmers' Dining Room, . . . . .	7	7	14
Katie M. Aldrich, Centre, . . . . .	1	10	8
Ida R. Howes, Centre, . . . . .	2	6	18
Thomas C. Powers, . . . . .	7	11	11
Mary E. Johnson, Cook, . . . . .	—	11	14
Carrie Egen, Assistant Cook, . . . . .	2	4	20

*Officers and Employés. — Concluded.*

NAME.	Years.	Months.	Days.
Lillian M. Works, Assistant Cook, . . .	—	4	22
Delphine Tetro, Assistant Cook, . . .	—	—	16
H. Frank Haskell, Assistant Cook, . . .	1	3	4
William C. Hall, Assistant Engineer, . .	16	5	17
Nicholas Riel, Night Engineer, . . .	6	2	25
Andrew N. Thorington, Watchman, . . .	11	1	30
Sifroi Belville, Carpenter, . . .	11	10	7
Walter Tower, Carpenter, . . .	5	3	—
Alfred Parenteau, Painter, . . .	16	6	18
David Mercier, Coachman, . . .	5	—	14
Charles Egen, Assistant Baker, . . .	4	5	4
Benjamin Rockwell, Assistant Farmer, . .	14	9	—
Elson E. Howes, Assistant Farmer, . . .	4	11	23
Julius Freeman, Assistant Farmer, . . .	4	7	24
Henry Wilson, Assistant Farmer, . . .	2	10	8
Erie L. Ditty, Assistant Farmer, . . .	1	9	26
William Simpson, Assistant Farmer, . . .	—	5	—







**TWENTY-EIGHTH ANNUAL REPORT**

**OF**

**THE TRUSTEES**

**OF THE**

**STATE LUNATIC HOSPITAL**

**AT NORTHAMPTON,**

**FOR THE YEAR ENDING SEPTEMBER 30, 1883.**

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**BOSTON :**  
**WRIGHT & POTTER PRINTING CO., STATE PRINTERS,**  
**18 POST OFFICE SQUARE.**  
**1884.**



## OFFICERS OF THE NORTHAMPTON LUNATIC HOSPITAL.

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### TRUSTEES.

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ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.
HENRY W. TAFT, Esq., . . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG.
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DAVID G. HALL, M.D., . . . . .	SECOND ASSISTANT PHYSICIAN.
WALTER B. WELTON, . . . . .	CLERK.
JOHN MERCIER, . . . . .	FARMER.
DANFORD MORSE, . . . . .	ENGINEER.

---

### TREASURER.

PLINY EARLE, . . . . .	NORTHAMPTON.
------------------------	--------------

Office at the Hospital.

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### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	MALE SUPERVISOR.
LUCY A. GILBERT, . . . . .	FEMALE SUPERVISOR.
F. JOSEPHUS RICE, . . . . .	STEWARD.
MARY E. WARD, . . . . .	SEAMSTRESS.
MINNIE J. HOWES, . . . . .	LAUNDRESS.
CHARLES EGAN, . . . . .	BAKER.



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# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth  
and the Honorable Council :*

The undersigned, as Trustees of the Northampton Lunatic Hospital, have the honor hereby to present to you their report of the proceedings of that institution during the official year ending with the close of September, 1883. It is the twenty-eighth annual report since the buildings of the hospital were begun, and the twenty-sixth since they were opened for the reception of patients.

On the morning of the first of October, 1882, the beginning of the official year, the number of patients in the house was 459, of whom 229 were men and 230 women. In the course of the intervening year the number of admissions was 147, of which 78 were of men and 69 of women. The whole number, therefore, of patients who were under the care of the hospital, for either the whole or a part of the year, was 606, of whom 307 were men and 299 women.

The whole number of patients discharged in the course of the year, aside from those who died, was 107, of whom 60 were men and 47 women. Of deaths there were 30; 17 of them being of men and 13 women.

The number of patients remaining in the house on the 30th of September, 1883, the end of the official year, was of men 230 and of women 239, a total of 469. The daily average for the year was of men 235 and of women 231, and of both sexes 466. The largest number in the hospital on any day in the course of the year was 485, on each of three days in



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June, and the least number on any day 452, on the 4th of December, 1882.

Of the 107 patients who were discharged in the course of the year, the result of treatment was recorded as recovered in 28, much improved in 9, improved in 33, unimproved in 35, and not insane in 2.

In our annual report for 1881-82, it was mentioned that a new roadway had been laid out through the North grove, that some work had already been done upon it, and that it was hoped to make it passable before the close of the current year. In this hope we were disappointed. The ground was frozen up unusually early, and so soon after the harvest was finished that little could be done to it, and it became necessary to suspend the work for the winter. As early as practicable, however, in the spring, it was resumed, and the road finished in the early part of June. The distance by this road from the barn to the old ice-house, and to the whole north-eastern section of the farm, is but little more than half as great as by the old route over the county road.

The pond made upon the premises in 1882, for the purpose of supplying the hospital with ice, proved a success. Fed by springs and by the surface water of its immediate vicinity, it was soon filled; and it furnished more than the necessary quantity of the purest quality of ice.

In the spring designs were made for a building, the basement of which is intended to supply a much-needed cellar for garden roots and other vegetables, and the stories above, a large store-room, a paint shop and a mattress shop, together with room for other purposes. After the site was fixed upon, it was found that the main sewer — of the exact route of which no chart had been left by the builders of the hospital — runs under a part of it. The sewer was of stone and consisted of two upright walls with the intervening space covered. Upon an examination of it, it was found to be so defective as to threaten a closing up by the caving in of the walls. Under these circumstances it was believed that the true course to be pursued was to make this drain perfectly safe. About one hundred feet of the old sewer was taken up and replaced by a cylindrical brick tube, two feet in diameter, the walls of which are nowhere less than eight inches in

thickness, while in some parts they are twelve. As the bottom of the sewer is about seventeen feet below the surface, the quantity of earth to be excavated was large. The work was, however, prosecuted to completion without any untoward accident or important hindrance. The season was then so far advanced that further work upon the projected building was postponed until the coming spring. One of the desired improvements mentioned last year is that of a wood-house detached from the hospital. This want is about to be supplied by an extension of the scullery, which is now in progress.

At the southeast corner of the farm, near the West Street bridge, is a tract of land with three small dwellings, which, as it belonged to other owners, has heretofore prevented the hospital farm from a desirable completeness of form, by bringing its boundary to the road upon its southern line and to the river upon its eastern line. As this property came into market, we believed it to be for the best interests of the hospital to acquire it, and it was consequently purchased.

The charges made for the board of patients, which constitute the earnings of the hospital, for the official year, were as follows :

For State patients,	.	.	.	.	.	\$27,401 69
town patients,	.	.	.	.	.	41,703 05
private patients,	.	.	.	.	.	15,237 14
						<hr/>
Total,	.	.	.	.	.	\$84,341 88

The Treasurer's annual report, made out in the more detailed form which was adopted two years ago, has been received and audited, and is hereto appended. According to the balances of the accounts, it appears that, at the close of the fiscal year, Sept. 30, 1883, there were :—

The reserve fund,	.	.	.	.	.	\$10,000 00
And cash assets available for future use,	.	.	.	.	.	28,409 86
						<hr/>
Total,	.	.	.	.	.	\$38,409 86
And liabilities (bills payable),	.	.	.	.	.	6,088 75
						<hr/>
Balance in favor of the hospital,	.	.	.	.	.	\$32,321 11

## 10 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

Aside from these still available cash assets, the hospital has in store a quantity of *purchased* provisions and supplies, valued at \$16,618.94 ; together with all the unconsumed hay, grain and vegetables grown upon the farm in the current calendar year.

The corps of resident and administrative officers remains the same as at the beginning of the year, and the condition of the institution is in all respects as satisfactory as at any former period.

S. M. SMITH.  
A. C. DEANE.  
HENRY W. TAFT.  
L. D. JAMES.

NORTHAMPTON, Oct. 4, 1883.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL  
SEPT. 30, 1883.

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Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant superintendent and physician, . . . . .	" 1,500 00
First assistant physician, . . . . .	" 900 00
Second assistant physician, . . . . .	" 600 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk-hire and paid to a clerk, . . . . .	" 200 00
Clerk, . . . . .	" 900 00
Farmer, . . . . .	" 600 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 80 00
Supervisor ( male ), . . . . .	" 40 00
Supervisor ( female ), . . . . .	" 25 00
Assistant supervisor ( female ), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 14 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Baker, . . . . .	" 25 00
Steward, . . . . .	" 54 17
Assistant steward, . . . . .	" 35 00
Attendants ( male ) ( 1 ), . . . . .	" 30 00
Attendants ( male ) ( 3 ), . . . . .	" 28 00
Attendants ( male ) ( 4 ), . . . . .	" 25 00
Attendants ( male ) ( 2 ), . . . . .	" 23 00
Attendants ( male ) ( 3 ), . . . . .	" 21 00
Attendants ( female ) ( 11 ), . . . . .	" 18 00
Attendants ( female ) ( 1 ), . . . . .	" 16 00
Attendants ( female ) ( 1 ), . . . . .	" 15 00
Attendants ( female ) ( 3 ), . . . . .	" 14 00
Night-watch ( female ), . . . . .	" 18 00
Housework, centre ( female ) ( 2 ), . . . . .	" 15 00
Cook ( female ) ( 1 ), . . . . .	" 16 00
Assistant cook ( male ) ( 1 ), . . . . .	" 16 00
Assistant cooks ( female ) ( 3 ), . . . . .	" 15 00

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Farmers' dining-room ( female ) ( 1 ), . . . . .	per month,	\$15 00
Housework, rear building ( female ) ( 1 ), . . . . .	"	8 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Assistant engineer, . . . . .	"	32 00
Night engineer, and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	28 00
Farm hands ( 5 ), . . . . .	"	28 00
Farm hand ( 1 ), . . . . .	"	25 00
Farm hand ( 1 ), . . . . .	"	23 00

In the warm season we generally hire some farm hands by the day. This year we have four, at \$1.50 per day, without board. They work mostly on improvements of the farm.

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1883.

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Live-stock on the farm, . . . . .	\$5,797 00
Produce of the farm on hand, . . . . .	6,353 00
Carriages and agricultural implements, . . . . .	3,825 00
Machinery and mechanical fixtures, . . . . .	9,140 00
Beds and bedding in inmates' department, . . . . .	12,050 00
Other furniture in inmates' department, . . . . .	4,830 00
Personal property of State in Superintendent's department, . . . . .	9,145 00
Ready-made clothing, . . . . .	2,121 17
Dry goods, . . . . .	4,009 68
Provisions and groceries, . . . . .	3,700 94
Drugs and medicines, . . . . .	650 00
Fuel, . . . . .	6,888 00
Library, . . . . .	850 00
Paints and oils, . . . . .	300 00
<b>Total, . . . . .</b>	<b>\$69,659 74</b>

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital:*

The following statement presents a summary account of the receipts and the disbursements for the official year 1882-83, and shows the present financial condition of the Hospital.

## ASSETS.

Three hundred and forty acres of land, . . . . .	\$43,000 00
Hospital building, . . . . .	250,000 00
Farm-house, \$2,000; brick-house, \$2,000, . . . . .	4,000 00
Three dwellings (H. Day lot), . . . . .	1,500 00
Two barns, . . . . .	5,500 00
Stable, . . . . .	2,000 00
Other buildings, . . . . .	6,000 00
	<hr/> \$312,000 00

## PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' report, . . . . .	\$69,659 74
Reserve fund, . . . . .	10,000 00

## RECEIPTS.

Cash on hand Sept. 30, 1882, . . . . .	5,988 17
Received from the State Treasurer, . . . . .	27,518 65
from towns, . . . . .	44,028 08
from individuals, . . . . .	14,656 52
from sales, . . . . .	2,166 38
from interest, . . . . .	732 45
	<hr/> \$95,090 25

## PAYMENTS.

1st. Salaries and labor, . . . . .		\$26,986 20
2d. Provisions and supplies, viz.: —		
Meats of all kinds, . . . . .	\$6,966 10	
Fish of all kinds, . . . . .	1,627 98	
Fruit and vegetables, . . . . .	2,592 57	
Flour, . . . . .	4,660 88	
Grain and meal for table, . . . . .	817 57	
Grain and meal for stock, . . . . .	1,870 88	
Tea, coffee and chocolate, . . . . .	899 43	
Sugar and molasses, . . . . .	2,669 43	
Butter and cheese, . . . . .	4,490 46	
Salt and other groceries, . . . . .	2,720 30	
All other provisions, . . . . .	391 02	
		<hr/>
		29,706 62
3d. Clothing, . . . . .		4,710 88
4th. Fuel and lights, . . . . .		8,364 01
5th. Medicines and medical supplies, . . . . .		1,519 82
6th. Furniture, beds and bedding, . . . . .		2,519 88
7th. Transportation and travelling expenses, . . . . .		320 57
8th. Ordinary construction and repairs, . . . . .		2,733 17
9th. Extraordinary construction and repairs, . . . . .		2,205 81
10th. Real estate, . . . . .		4,513 00
11th. Miscellaneous expenses, including —		
1. Farm stock, . . . . .	\$1,145 10	
2. Farm supplies, . . . . .	2,506 03	
3. Water, . . . . .	750 00	
4. Minor expenses, . . . . .	443 47	
5. Contingencies, . . . . .	1,099 20	
		<hr/>
		5,943 80
Total expenditures, . . . . .		<hr/>
		\$89,523 76

## LIABILITIES.

Salaries and wages due Oct. 1, 1883, . . . . .	\$3,636 43
Miscellaneous bills due, . . . . .	2,372 32
	<hr/>
	\$6,008 75
Due the institution for board Oct. 1, 1883:	
from State, . . . . .	\$7,097 34
towns, . . . . .	11,710 12
individuals, . . . . .	3,935 91
interest, . . . . .	100 00
Due from Treasurer, Sept. 30, 1883, . . . . .	5,566 49
	<hr/>
	\$28,409 86



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## SUMMARY.

Total receipts, . . . . .	\$95,090 25
Total payments, . . . . .	89,523 76
<hr/>	
Cash on hand Sept. 30, 1883, . . . . .	\$5,566 49
Total liabilities, . . . . .	\$6,008 75
Total debts due the institution, . . . . .	28,409 86
Total expenditures, . . . . .	89,523 76
Dividing this sum by 466.76, the average number of patients,	
we have the average expenditure per patient, . . . . .	191.798
And the average weekly expenditure, per patient, of . . . . .	3.688
Deducting from the total expenditures, . . . . .	\$89,523 76
The extraordinary expenses, . . . . .	6,718 81
<hr/>	
We have the current expenses, . . . . .	\$82,804 95
Dividing \$82,804.95 by 466.76, the average number of pa-	
tients, we have the average expenditure per patient, . . . . .	\$177 40
Making the average weekly expenditure per patient, . . . . .	3.411
Deducting from the current cash expenditure, . . . . .	\$82,804 95
The increase of personal assets, . . . . .	804 95
<hr/>	
We have the apparent necessary cost for the year, . . . . .	\$82,000 00
Dividing \$82,000.00 by 466.76, the average number of pa-	
tients, we have, as the annual cost of each patient, . . . . .	175.679
Making the average weekly cost of each patient, . . . . .	3.301

PLINY EARLE, *Treasurer.*

NORTHAMPTON, Oct. 4, 1883.

We have audited the Treasurer's accounts and found a proper voucher for every entry.

A. C. DEANE,  
L. D. JAMES.

NORTHAMPTON, Oct. 4, 1883.

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital :*

The general movement of the population of the hospital, and the principal leading facts in its medical history for the year just closed, are embodied in the following table :

### 1. General Statistics, 1882-83.

	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1882, . . . . .	229	230	459
Admitted within the year, . . . . .	78	69	147
Whole number of <i>cases</i> within the year, . . . . .	307	299	606
Discharged within the year, . . . . .	77	60	137
Viz.: as recovered, . . . . .	11	17	28
much improved, . . . . .	9	—	9
improved, . . . . .	18	15	33
unimproved, . . . . .	21	14	35
not insane, . . . . .	1	1	2
Deaths, . . . . .	17	13	30
Patients remaining Sept. 30, 1883, . . . . .	280	239	469
Viz.: supported as State patients, . . . . .	83	75	158
town patients, . . . . .	119	134	253
private patients, . . . . .	28	30	58
Number of different <i>persons</i> within the year, . . . . .	303	295	598
admitted, . . . . .	77	65	142
recovered, . . . . .	11	17	28
Daily average number of patients, . . . . .	235.57	231.19	466.76

The whole number of *admissions* in the course of the year was, as shown above, 147, of which 78 were of men and 69 of women. These admissions, however, do not accurately represent the number of different *persons* admitted. One of the men and 4 of the women were received twice each, making 10 admissions of 5 *persons*. The whole number of

## 18 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

*persons* admitted was consequently 142, or 5 less than the number of admissions.

Of the *persons* admitted, 77 were men and 65 women.

The whole number of *patients* in the house, within the year, was 606, of whom 307 were men and 299 women. This, of course, included the 229 men and 230 women, a total of 459, who were here at the commencement of the year. But 3 of these, all of them men, were subsequently discharged and admitted again within the year. They were counted at the beginning of the year, and again counted upon re-admission. In this way the whole number of *persons* is reduced by 3 below that of the whole number of *patients*. As already mentioned, there is a similar reduction of 5 *persons*, in consequence of the admission of 5 *persons* twice each. Hence the whole number of *persons* in the house, in the course of the year, was only 598, or 8 less than the whole number of *patients*.

Of the 5 *persons* who were admitted twice each, only one was discharged recovered on the first of those admissions; and of the 3 who were here at the beginning of the year, but afterwards discharged and readmitted, no one was discharged recovered.

Of the 142 *persons* admitted, no less than 13 men and 16 women, a total of 29, or a fraction more than one-fifth of the whole, have been inmates of the institution more than once each. Twenty-two of them, 11 of whom are men and 11 women, have been here twice each; 1 man and 2 women three times each; 1 woman four times; 2 women five times each; and 1 man ten times.

Of the 22 who have been admitted twice each, only 5, and all of them women, were discharged recovered on their first admissions. Five men were discharged much improved; 2 men and 6 women as improved, and 4 men as unimproved.

Of the 3 who have been admitted three times each, the man had been discharged twice as unimproved; 1 woman as much improved twice, and the other woman as improved once and unimproved once.

The woman who has been admitted four times, was discharged improved once, and unimproved twice.

Of the 2 women who have been admitted five times each,

one of them has been discharged recovered three times, and much improved once. The other had been discharged as much improved once, and improved three times.

The number of *patients* or *cases* admitted exceeded by 23 that of the next preceding year; and the same is true of the number of *persons* admitted.

The number of patients remaining in the hospital at the close of the official year, is larger by 10 than it was at the close of the next foregoing year.

Three days before the end of the year, 5 patients belonging in Lowell were transferred to the department for the insane connected with the new almshouse of that city.

The daily average number of patients for the year was larger by 5 than in 1881-82.

#### STATUS OF PATIENTS.

Of the 147 patients who were admitted in the course of the fiscal year, the expense of the support of 41 was charged to the Commonwealth, that of 78 to cities and towns, and that of 28 to the relatives, friends, guardians, or agents of the persons respectively. Only one change of this status was afterwards made in regard to any patient supported either by the State or by a city or town. In this case the transfer was from State to town. In two instances, patients whose expenses were originally paid from private funds, had their support transferred, in one of them to a city, and in the other to a town.

Including deaths, the whole number of patients discharged within the year was 137. Of these, the Commonwealth was responsible for the support of 37. Cities and towns paid for 79, and individuals or private funds for 21.

At the close of the year the number of patients remaining in the hospital was 469. One hundred and fifty-eight of them are supported by the State; 253 are beneficiaries of cities and towns, and 58, on the list of boarders, are chargeable to their friends, or other representatives of private responsibility.

In several of the foregoing annual reports allusion has been made to the continual change in the relative proportions to each other, and to their total, of the three classes of

## 20 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

patients mentioned. Of late years there has been but little variation, either in numbers or in relative proportion, of the class that derive their support from private sources; but in respect to the other two classes, there has been a constant augmentation in numbers and proportion of those who are chargeable to cities and towns, accompanied by a corresponding reduction of those who are wards of the Commonwealth. The weekly average number of each of the three classes, during each of the last two official years, is shown in the subjoined table.

	1881-82.			1882-83.		
	Males.	Females.	Total.	Males.	Females.	Totals.
State patients, . .	88.71	78.13	166.84	87.34	74.28	161.62
Town patients, . .	112.78	125.46	238.25	118.98	128.65	247.63
Private patients, .	28.98	27.53	56.52	29.26	28.32	57.58

By these statistics it appears that, during the official year covered by this report, the average number of patients drawing their sustenance from the treasury of the Commonwealth was less by five than in the next foregoing year; and that of those who are the beneficiaries of cities and towns, was increased by ten. The change in the proportion of private patients was very slight, there being an increase of a small fraction more than one.

By reverting to a somewhat remote period in the history of the hospital, the variation in the several classes of patients can be more strikingly illustrated. Fifteen years ago, at the close of the official year which terminated with the 30th of September, 1868, there were 408 patients in the house. Of these, the Commonwealth was charged with the support of 258, and cities and towns with that of 51; while no less than 106 were supported by private funds. At that time there were many of the class last mentioned whose residences were in other States than Massachusetts. Now there are very few.

## RECOVERIES.

*Judging in accordance with our standard of mental health, and our opinions in regard to the extent to which, in individuals, that standard is modified by temperament, idiosyncrasy, education and habits, twenty-eight of the patients who were discharged from the hospital within the official year were in a mental condition which justified the record "recovered."* This number is coincident with that of the recoveries in the next foregoing year. Eleven of these patients were men, and seventeen women. As no one of them was discharged recovered more than once, the number of *persons* was the same as the number of *patients*. In twenty-three of the twenty-eight cases the persons were in the hospital on their first admission. One man and one woman were here on their second admission, and both of them had been discharged recovered on their first admission. Two women were here on their third admission. One of them had been discharged as recovered upon both of her former admissions, and the other as much improved on both former admissions. One woman, who was here on her fifth admission, had been discharged recovered on each of the preceding four admissions. The five persons have now been reported as recovered thirteen times.

Although, as before mentioned, the number of recoveries was the same as in the next preceding year, yet, inasmuch as the number of admissions was larger than in that year, the *proportion* of recoveries was necessarily less. It was 19.71 per cent. of the *persons* admitted.

The readers of the reports of the hospitals for the insane within the Commonwealth have become so familiar, by its reiteration, with the fact that, in a very large majority of the patients brought to those institutions, the disease with which they are afflicted is either incurable from its very origin or has become so by consequence of its duration, that it seems like more than a "thrice told tale" to repeat it again. To look for a cure of this great mass of organic disease of the brain, nearly exhausted vitality, and broken-down constitutions, is to expect the unattainable. There is a limit to medical possibilities, as there is to the possibilities in every other

sphere of human action. There is, however, one cause which limits the recoveries to a point below the possible. A frequent unwillingness to submit the patient to a sufficiently protracted treatment has probably always, since the origin of hospitals, existed. It still exists, and will doubtless continue, to say the least, for a long time to come. Hence, in a no inconsiderable number of cases, the patient is prematurely removed, and the physician, where he hoped and expected a recovery, is obliged to content himself with the record "improved," or "much improved."

Of the patients who recovered, seven were wards of the State, sixteen were chargeable to cities and towns, and five were supported by private funds.

#### DEATHS.

Seventeen men and thirteen women, a total of thirty, died at the hospital in the course of the official year. Consumption, the disease which in point of numbers almost invariably stands at the head of the column of mortality, retains its usual position, with three men and six women, a total of nine. Next comes the exhaustion of chronic mania, a condition in which there is a general impairment, enfeeblement and wasting away of the whole body, in consequence apparently of the deficiency of vital energy coming from a diseased brain. To this the record gives five, of whom three were men and two women. Paresis, or the paralysis of the insane, a still more incurable, but a vastly less frequent disease than consumption, and which is very rarely found in women, holds the third place, with three victims, all of whom were men. One man and two women died from the debility and decay of old age; one man and one woman of epilepsy; two men of apoplexy, and one man and one woman of inflammation of the bowels. Of the four other deaths, there was one each of the same number of diseases, as shown in table eighteen of the appendix.

Although, among the patients admitted, there was a pretty large number having the propensity to self-destruction, which in some of them was of the most determined and persistent character, yet the year was passed without the accomplishment of the purpose by any one of them.

The hospital has been in operation twenty-five years, and hitherto the whole number of suicides in its history is 18. Twelve of them were by men and six by women. Eleven of them took place in the course of the first twelve years, and seven in the course of the last twelve, there being none in the middle year of the period. Thus the actual *number* of deaths in this way, in the earliest twelve years, exceeded by more than sixty per cent. the number in the latest twelve. But the average number of patients in the house during the former of these two periods was only 347.61, whereas, during the latter it was 455.92, or an excess of not more than 100. By computation from these numbers, it is shown that the proportion of suicides, as compared with the average number of patients in the house, was more than twice as great during the first twelve years as it was during the last twelve.

The greater mortality of men than of women has again been illustrated by the history of the year just closed. The difference, however, between the two sexes, was not so great as in the next foregoing year. Of the 303 men who were treated within the year, 17 died. This was equal to 5.61 per cent. Of the 295 women, 13 died; which was but 4.40 per cent. If the proportion be calculated upon the daily average number of patients in the house, which is generally believed to be the most correct method, the percentage of the deaths of men was 7.21, and that of women 5.62.

Of the 30 patients who died, 8 were supported by the State, 17 by cities and towns, and 5 by individuals, or private funds.

A general mortuary record of the hospital, from the time at which it was opened to the end of the official year covered by this report, is contained in the following table:—



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*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1882.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Average No. of Patients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Average No. of Patients.
			Men.	Women.	Total.		
1858-59,	313	229.55	7	12	19	6.07	8.27
1859-60,	398	255.96	9	18	27	6.78	10.54
1860-61,	434	314.26	15	15	30	6.91	9.54
1861-62,	442	313.80	9	10	19	4.29	6.05
1862-63,	470	355.28	19	7	26	5.53	7.31
1863-64,	475	357.63	17	30	47	9.89	13.14
1864-65,	469	342.40	17	24	41	8.76	11.97
1865-66,	488	376.35	18	13	31	6.35	8.23
1866-67,	543	401.03	23	24	47	8.65	11.71
1867-68,	565	413.41	25	18	43	7.61	10.40
1868-69,	590	405.10	13	12	25	4.23	6.17
1869-70,	604	408.83	22	11	33	5.46	8.07
1870-71,	616	421.90	16	12	28	4.54	6.64
1871-72,	619	428.72	19	18	37	5.97	8.63
1872-73,	614	437.23	13	8	21	3.42	4.80
1873-74,	626	469.54	14	11	25	3.99	5.32
1874-75,	629	475.35	23	18	41	6.52	8.62
1875-76,	629	474.21	18	19	37	5.88	7.80
1876-77,	603	476.16	21	21	42	6.96	8.82
1877-78,	551	442.43	14	9	23	4.17	5.19
1878-79,	535	436.73	14	9	23	4.29	5.27
1879-80,	559	450.51	17	12	29	5.19	6.44
1880-81,	569	451.79	16	10	26	4.57	5.75
1881-82,	587	461.66	24	14	38	6.47	8.23
1882-83,	606	466.76	17	13	30	4.95	6.42

By an examination of this table it will be seen that in only eight of the twenty-five years was the percentage of deaths, as calculated upon the whole number of patients, smaller than in the year just ended; and in only seven of the years, as calculated upon the daily average number of patients in the house.

The subjoined tables, illustrative of the relative mortality of this year as compared with that of the whole period of the existence of the hospital, and with two subordinate periods, are similar to those given in the annual report for 1881-82.

As calculated upon the whole number of patients under treatment, the mean or average mortality was, —

For the whole period of twenty-five years, . . .	5.82 per cent.
For the first twelve years, . . . . .	6.71 "
For the last twelve years, . . . . .	5.22 "
While for the last year the mortality was, . . .	4.95 "

As calculated upon the daily average number of patients in the hospital, it was, —

For the whole period, . . . . .	7.82 per cent.
For the first twelve years, . . . . .	9.28 “
For the last twelve years, . . . . .	6.76 “
While for the last year the mortality was . . . . .	6.42 “

By either method of calculation,—and the latter, as before stated, is considered the most correct, — the *proportion* of deaths in the last official year is shown to be less than in either the whole period, or the last period of twelve years, and very much less than in the first period of twelve years.

#### WORSHIP AND ENTERTAINMENT.

In continuation of the custom established in the earliest years of the history of the hospital, a gathering of the patients and others in the chapel, on the afternoon of every Sabbath, for the purpose of divine worship, has taken place. In conformity, also, with the course pursued from the beginning, the services have usually been conducted, in rotation, by the pastors of several denominational churches in the vicinity, but occasionally by those from a distance who were stopping temporarily in town. Inasmuch as the inmates of the hospital have themselves been connected, either by membership or attendance, with a diversity of church organizations, it is believed that this custom gives more general satisfaction than would be given by any one man acting as chaplain.

The average attendance upon these exercises during the official year was not far from two hundred and seventy.

All assemblies of the patients for purposes other than worship take place in the evening. Much the largest proportion of these are for entertainment and instruction by reading. The exercises on each of these occasions are opened and closed by vocal and instrumental music, the singing of hymns or, sometimes, of popular songs. In the selection of articles to be read there is an endeavor to cater to a diversity of tastes by making the variety of sub-

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jects as large as possible without giving offence to any individual.

The other methods of entertainment and amusement which have been resorted to in the course of the year are shown in the subjoined schedule.

### EXERCISES IN THE CHAPEL.

1. ON THE SABBATH, —	
Divine worship, . . . . .	53 days
2. ON SECULAR EVENINGS, —	
(a) <i>Readings and Recitations, opened and closed with music :</i>	
The Bible, . . . . .	23 "
The Bible and selections of prose, . . . . .	2 "
The Bible and selections of poetry, . . . . .	18 "
The Bible and recitations of poetry, . . . . .	4 "
Miscellaneous selections of prose, . . . . .	97 "
Miscellaneous selections of poetry, . . . . .	35 "
Miscellaneous selections of prose and poetry, . . . . .	30 "
Recitations of poetry, . . . . .	4 "
(b) <i>Lecture : —</i>	
On agriculture, . . . . .	1 "
(c) <i>Other entertainments : —</i>	
Pictures shown with the stereopticon, . . . . .	7 "
Concerts of vocal and instrumental music, . . . . .	5 "
Operetta, "The Rebellion of the Daisies," . . . . .	1 "
Broom drill, and "Ici on parle Français," . . . . .	1 "
Exhibition of prestidigitation, . . . . .	1 "
(d) <i>Social Assemblies : —</i>	
Quadrille parties, . . . . .	19 "
No assembly, . . . . .	64 "
Total, . . . . .	365 days.

By this list, it appears that the inmates were assembled upon three hundred and thirty-one days in the course of the year. This number is somewhat below the average in former years, in consequence of the omission of the evening exercise, on visiting days, during a part of the warmer months.

My opinion of the very great utility of this department of the administration of the hospital has been more and more confirmed by the experience of successive years.

### FARM.

As the farm is not only one of the important means in the hygienic and restorative treatment of the patients, thus contributing to the great end for which the institution was established, but, furthermore, a no inconsiderable source of revenue in the production of articles necessary for the support of the inmates, it has always been considered worthy of a somewhat prominent place in the annual reports.

The remarkable and prolonged drought of 1882 was the cause of a great reduction in the quantity of farm and garden products for that year, and its influence was felt to some extent in the current year, more especially in the diminution of the quantity of hay, by the killing of grass-roots upon the drier portions of the farm. The summer just closed was characterized by another drought, less severe, and at a later date, but still to a pretty large extent diminishing the quantity of some of the crops the growth of which is chiefly in the latter part of summer.

Notwithstanding the injury to grass-roots above mentioned, the first crop of hay was larger by several tons than that of the next preceding year, and slightly the largest of any ever harvested upon the farm. The extent of land mown, however, exceeded that of any former year. The rowen, or after-growth, was seriously affected by the drought, yet the quantity cut was over 22 tons. This was nearly three times as much as was produced in 1882, but not so much by 16 tons as in 1881.

It was a favorable year for corn — of which the quantity raised is comparatively small—as well as for potatoes, which constitute one of our largest products. Over 2,500 bushels of the latter were harvested, or more than twice as many as in 1882.

Although this is not the “bearing year” for apples, and the prospect in the early part of summer was very unfavorable, still the harvest brought in no less than 191 barrels, which, under the circumstances, was an unexpectedly liberal yield.

Of onions the product exceeded that of any preceding year, and of beets it was larger than the average. Of squashes,

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both winter and summer, it was small, as the vines were destroyed by worms at the roots. The yield of cucumbers was much diminished by the drought, and, for the same reason, the crop of English turnips was an almost utter failure.

## LIST OF PRODUCTS.

Hay (first growth of home farm), 135 tons, at \$17,	\$2,295 00
Hay (south lot), 26 tons, at \$17,	442 00
Hay (Clarke orchard), 14½ tons, at \$17,	241 40
Hay (after-growth of whole farm), 22½ tons at \$17,	382 50
Corn fodder, dry, 16 tons,	64 00
Oat straw, 5 tons,	50 00
Corn, 225 bushels,	168 75
Potatoes, 2,578 bushels,	1,289 00
Oats, 225 bushels,	112 50
Broom-seed, 40 bushels,	16 00
Broom-brush, 700 pounds,	56 00
Carrots, 77½ bushels,	30 82
Beets, 816 bushels,	285 75
Onions, 359 bushels,	275 25
Turnips, 582 bushels,	232 80
Parsnips, 70 bushels,	35 00
Beans (Lima), in shell, 116 bushels,	232 00
Beans (common), in shell, 28 bushels,	28 00
Beans (string), 55 bushels,	137 50
Beans (Lima), dry, 5 bushels,	15 00
Peas (green), in pod, 116½ bushels,	233 00
Sweet corn (green), in ear, 216½ bushels,	216 50
Tomatoes, 167 bushels,	167 00
Lettuce, 92½ bushels,	92 50
Cucumbers, 50½ bushels,	50 50
Squashes (summer), 65 bushels,	65 00
Squashes (winter), 2 tons,	80 00
Melons, 465 pounds,	4 65
Asparagus, 29½ bushels,	88 50
Pie-plant, 60½ bushels,	87 50
Beet greens, 15 bushels,	15 00
Spinach, 15 bushels,	15 00
Radishes, 520 bunches,	20 80
Cabbages, 1,500 heads,	60 00
Currants, 25½ bushels,	63 38
Apples, 191 barrels,	573 00
Pears, 30 bushels,	45 00
Quinces, 10 bushels,	30 00
Veal, raised here, 661 pounds,	80 04
<i>Amount carried forward,</i>	<i>\$3,376 64</i>

<i>Amount brought forward,</i>	\$8,376 64
Pork, 15,612 pounds,	1,408 47
Pigs sold, 126,	393 25
Pigs, roasting, 3,	6 00
Turkeys, 140 pounds,	31 33
Chickens, 56 pounds,	11 35
Heads and plucks,	4 50
Eggs, 127½ dozen,	34 23
Milk (grass-fed), 20,304 quarts,	1,015 20
Cider, 8 barrels,	24 00
Calfskins,	10 00
Young calves, sold,	17 00
Wood, sold,	106 05
	<hr/>
	\$11,433 02

The aggregate valuation of the products exceeds by \$1,462.81 that of the next preceding year, when the crops were seriously affected by the drouth, and, with one exception, is the largest of any year since the foundation of the hospital. The exceptional year was 1881, when the valuation exceeded by \$143.26 that of the current year.

The vegetables which are consumed in the course of the summer are appraised at the current market rates, at the time they are brought from the garden or the field. It consequently follows that, not unfrequently, the price of any given product varies according to the fluctuations of the market. For this reason the total value in some of the items in the above list is not the result of a multiplication of the quantity of the products by any one price.

As the average number of the herd of cows is not less than thirty, the quantity of milk produced by them, as stated in the list, would, without explanation, appear to be too small. The 20,304 quarts is the quantity estimated to have been the product of the grass of pasturage. The whole quantity was four times as large, or 20,304 gallons. The value of the hay, grain, turnips, and other roots from which the estimated three-fourths was produced, is entered in the list; and to enter that portion of the milk at its proper valuation would be but a repetition of value.

The easiest and most profitable method of utilizing the large amount of offal from the kitchen of so large an establishment as this, especially if it be in the country, and has

an extensive farm, is in the production of pork. This method has always been pursued here, and probably no other branch of the agricultural department of the institution, unless, perhaps, it be the production of milk, has been more profitable. Within the official year just closed, thirty-six swine were fattened and slaughtered on the premises. The weights, in pounds, of their carcasses, were respectively as follows: 321, 338, 411, 319, 299, 434, 538, 382, 435, 380, 539, 390, 430, 375, 540, 450, 403, 645, 430, 410, 709, 645, 424, 364, 510, 435, 472, 465, 454, 404, 393, 338, 484, 443, 433, 170. The weight of the largest was 709 pounds, and that of the smallest 179 pounds. The average weight of the largest five of them was 615 pounds, of the largest ten 554 pounds, and of the whole, 433 pounds. Their aggregate weight was 15,612 pounds, a quantity which has in no former year been exceeded. It furnished the hospital with a year's supply of salt pork, lard, and ham, and left a surplus of 925 pounds of pork and 150 pounds of ham, which was sold. Besides this, 126 pigs were sold, for an aggregate sum of \$393.25.

At the close of the official year the farm stock consisted of 9 horses, 6 working oxen, 6 fat oxen, 1 bull, 34 cows, 3 calves, 135 swine, 1 goat, and a pretty large number of domestic fowls.

#### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1881-82, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board-bills of its patients, and the small sum of ten dollars each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last-mentioned source during the past year were forty dollars.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction,

the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is the compensation fixed by statute law. One hundred and fifty-eight, or almost precisely one-third of the inmates now belong to this class. During the past year the weekly average of them was 34 per cent. of the whole.

For town patients it has received, and now receives, from the treasuries of the towns respectively in which these patients have legal settlements, the same sum per week (\$3.25 each) as from the State treasury for State patients; but the towns clothe their patients, and remunerate the hospital for damages done by them. More than one-half of the inmates are now in this class. The weekly average of them for the year was 53 per cent.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1883, was \$5.06 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 12 per cent., or about one-eighth of the whole.

The average weekly pay, per capita, charged by the hospital for all its patients — State, town, and private — in the course of the year is \$3.474. Such are the pecuniary resources of the institution. We turn to the results of

#### THE FINANCE OF THE LAST EIGHTEEN YEARS.

In April, 1865, the hospital was freed from debt, and the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the 1st of June, 1867, it received a direct bonus from the State of \$5,000, in two appropriations, for specific purposes, — one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to about one hundred and fifty acres, together with four dwelling-houses, the total cost of which was \$30,183. The State then has, in this way alone, been overpaid for its bonus, in the sum of \$25,183.



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The amount paid by the hospital for repairs and improvements in the course of the eighteen years, from Sept. 30, 1865, to Sept. 30, 1883, is \$205,925.89.

The surplus of cash assets now on hand, including the reserve fund, is \$32,401.11, or \$32,099.07 larger than it was on the 30th of April, 1865.

The *purchased* provisions and supplies, including fuel and stored clothing, now on hand, are estimated to have cost \$16,618.94. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$14,118.94.

The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums the account of debt of the Commonwealth to the hospital appears to be as follows : —

Excess of cost of land over direct bonus, . . . . .	\$25,183 00
Repairs and improvements, . . . . .	205,925 89
Excess of present cash assets, . . . . .	32,099 07
Increase of provisions and supplies, . . . . .	14,118 94
Increase of furniture, . . . . .	8,000 00
Total, . . . . .	<hr/> \$285,326 90

The necessary current repairs of the buildings may be estimated at \$3,000 annually. Deducting this sum for each of the eighteen years since Sept. 30, 1865, a total of \$54,000, there is a remainder of \$231,326.90. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely upon direct appropriations from the treasury of the Commonwealth.

In connection with the above exposition, it may be interesting to know to what extent the tax-payers of the State have contributed to the institution. From a list, furnished by the State treasurer, of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the

act authorizing its erection down to the present day, it has cost the people of the Commonwealth only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).

#### ACKNOWLEDGMENTS.

As the lapse of each successive year calls for the preparation of the annual report, it is always an agreeable duty not only to recognize and acknowledge the assistance of persons not connected with the hospital, in giving instruction, entertainment or amusement to our inmates, but to render our warmest thanks for every contribution to those purposes.

We are indebted, this year, to Miss Florence Austin, for a large collection of magazines and newspapers, as well as for numerous new-year's presents to inmates of the women's department; to Mrs. J. H. Butler for a collection of magazines; to S. E. Bridgeman, Esq., for a large number of religious newspapers, to Dr. G. W. Crittenden for a lot of the "Franklin Square Library"; and the publishers of the "Christian Register," and of the "Staaten Zeitung," for one copy, weekly, of each of those papers, respectively.

We are also under obligations to George W. Horr, Esq., for a lecture; to Dr. T. W. Meekins for exhibitions with the stereopticon; to Miss Longley and Miss Rice for two concerts; to several students of Smith College for a concert, with readings, under the direction of Miss Machado; and to Miss Blodgett and her amateur company for two entertainments, one of them an operetta, "The Rebellion of the Daisies," and the other a Broom Drill, and the comedy "Ici on parle Français."

The medical staff of the hospital remains the same as at the beginning of the official year. To the physicians thus associated with me, as well as to all the other present officers of the institution, my acknowledgments are due for the continued faithfulness with which they have performed the diversified labors of their departments.

The annual report now presented to you, gentlemen of the Board, is the twentieth which I have had the privilege and the pleasure of preparing and laying before your honorable

body,—the first of them having been written but three months after my appointment to the office of superintendent. The term of service thus implied is, if I mistake not, longer by several years than that of any other physician who has ever held the office of superintendent of a hospital of the kind belonging to this Commonwealth. Throughout this almost completed score of years, your counsel and confidence have been my aid and support, and it will ever be one of the pleasantest and most cherished memories of my life, that the perfect harmony of our official relations has never for an instant been broken.

PLINY EARLE.

NORTHAMPTON, Oct. 4, 1883.

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## APPENDIX.

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## 2.\* Monthly Admissions, Discharges and Averages.

MONTHS.	ADMISSIONS.			DISCHARGES (Including Deaths).			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1882.</b>									
October, . . .	3	4	7	4	5	9	228.71	229.67	458.38
November, . .	6	4	10	4	8	12	228.60	226.76	455.36
December, . .	9	5	14	5	3	8	231.22	225.58	456.80
<b>1883.</b>									
January, . . .	10	2	12	1	4	5	237.70	226.32	464.03
February, . .	3	3	6	5	4	9	242.00	223.21	465.21
March, . . .	5	8	13	11	3	14	236.35	226.81	463.16
April, . . .	4	3	7	5	7	12	236.23	227.43	463.66
May, . . .	7	13	20	5	8	13	233.87	226.19	460.06
June, . . .	11	12	23	4	3	7	242.13	236.57	478.70
July, . . .	6	6	12	12	4	16	240.35	239.65	480.00
August, . . .	6	6	12	7	2	9	235.45	242.16	477.61
September, . .	8	3	11	14	9	23	234.83	243.47	478.30
Total of cases,	78	69	147	77	60	137	-	-	-
Total of persons,	77	65	142	77	60	137	-	-	-
Daily average for the year,	-	-	-	-	-	-	235.57	231.19	466.76†

## 3. Received on First and Subsequent Admissions.

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	65	52	117	-	-	-
Second, . . . . .	11	11	22	-	5	5
Third, . . . . .	1	2	3	-	-	-
Fourth, . . . . .	-	2	2	-	3	3
Fifth, . . . . .	-	2	2	-	-	-
Tenth, . . . . .	1	-	1	4	-	4
Total of cases, . . .	78	69	147	4	8	12
Total of persons, . .	77	65	142	1	6	7

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals were obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

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## 4. Ages of Persons Admitted for the First Time.

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital, . . . . .	1	—	1	—	—	—
Fifteen years and less, . . . . .	2	3	5	—	1	1
From 15 to 20 years, . . . . .	2	2	4	2	3	5
20 to 25 years, . . . . .	5	8	13	5	7	12
25 to 30 years, . . . . .	2	4	6	7	7	14
30 to 35 years, . . . . .	7	7	14	9	7	16
35 to 40 years, . . . . .	7	5	12	15	7	22
40 to 50 years, . . . . .	9	7	16	12	11	23
50 to 60 years, . . . . .	4	1	5	7	4	11
60 to 70 years, . . . . .	4	2	6	5	3	8
70 to 80 years, . . . . .	1	1	2	3	1	4
Over 80 years, . . . . .	—	1	1	—	1	1
Unknown, . . . . .	21	11	32	—	—	—
Total of persons, . . . . .	65	52	117	65	52	117

## 5. Parentage of Persons Admitted.

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	1	1	—	—	1	1
New Hampshire, . . . . .	2	1	—	—	2	1
Vermont, . . . . .	6	6	1	1	7	7
Massachusetts, . . . . .	20	22	10	12	30	34
Connecticut, . . . . .	5	5	2	1	7	6
New York, . . . . .	4	1	1	2	5	3
Maryland, . . . . .	1	1	—	—	1	1
Virginia, . . . . .	—	—	1	—	1	—
Michigan, . . . . .	—	—	1	—	1	—
Canada, . . . . .	4	4	3	2	7	6
New Brunswick, . . . . .	1	1	—	—	1	1
England, . . . . .	1	2	2	1	3	3
Ireland, . . . . .	25	25	30	30	55	55
Scotland, . . . . .	1	1	2	2	3	3
Wales, . . . . .	—	—	1	2	1	2
Nassau, . . . . .	—	—	1	1	1	1
Germany, . . . . .	4	4	2	2	6	6
Unknown, . . . . .	2	3	8	9	10	12
	77	77	65	65	142	142

## 6. Residence of Persons Admitted.

PLACES.	Males.	Females.	Total.
Massachusetts, —			
Hampshire County, . . . . .	16	9	25
Hampden County, . . . . .	31	26	57
Berkshire County, . . . . .	15	16	31
Franklin County, . . . . .	14	8	22
Worcester County, . . . . .	1	1	2
Norfolk County, . . . . .	—	1	1
Suffolk County, . . . . .	—	2	2
Middlesex County, . . . . .	—	1	1
Bristol County, . . . . .	—	1	1
Total of persons, . . . . .	77	65	142
Cities or large towns,* . . . . .	41	32	73
Country districts, . . . . .	36	33	69
Total of persons, . . . . .	77	65	142

## 7. Civil Condition of Persons Admitted.

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	26	18	44	32	22	54	7	11	18	—	1	1
Second, . . . . .	4	1	5	6	6	12	—	1	1	—	—	—
Third, . . . . .	—	—	—	1	2	3	—	—	—	—	—	—
Fourth, . . . . .	—	1	1	—	1	1	—	—	—	—	—	—
Fifth, . . . . .	—	—	—	—	1	1	—	—	—	—	—	—
Tenth, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—
Total persons, . . . . .	31	20	51	39	32	71	7	12	19	—	1	1

\* Containing not less than 10,000 inhabitants.



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## 8. Occupations of Persons admitted.

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
Clergyman, . . . . .	1	Teacher, . . . . .	1
Physician, . . . . .	1	Housekeeper, . . . . .	3
Manufacturer, . . . . .	2	Clerk's wife, . . . . .	1
Book-keeper, . . . . .	1	Manufacturer's wife, . . . . .	1
Salesman, . . . . .	1	Paper-maker's wife, . . . . .	2
Insurance agent, . . . . .	1	Farmer's wife, . . . . .	6
Musician, . . . . .	1	Machinist's wife, . . . . .	3
Printer, . . . . .	1	Mill operative, . . . . .	6
Farmer, . . . . .	11	Mill operative's wife, . . . . .	3
Machinist, . . . . .	3	Carpenter's wife, . . . . .	2
Builder, . . . . .	1	Dress-maker, . . . . .	1
Carpenter, . . . . .	3	Corset-maker, . . . . .	1
Bricklayer, . . . . .	1	Saloon-keeper's wife, . . . . .	1
Blacksmith, . . . . .	3	Laborer's wife, . . . . .	8
Hotel-keeper, . . . . .	1	Shoemaker's wife, . . . . .	1
Butler, . . . . .	1	Teamster's wife, . . . . .	1
Jeweller, . . . . .	2	Currier's wife, . . . . .	1
Bartender, . . . . .	1	Brakeman's wife, . . . . .	1
Tailor, . . . . .	1	Servant, . . . . .	10
Hatter, . . . . .	1	None, . . . . .	6
Moulder, . . . . .	1	Unknown, . . . . .	6
Railroad fireman, . . . . .	1		
Tool-maker, . . . . .	1	Total, . . . . .	65
Spinner, . . . . .	1		
Laborer, . . . . .	23		
Farm-laborer, . . . . .	2		
Carriage-trimmer, . . . . .	1		
Cigar-maker, . . . . .	1		
Button-maker, . . . . .	1		
Teamster, . . . . .	1		
Butcher, . . . . .	1		
Gate-keeper, . . . . .	1		
Peddler, . . . . .	1		
None, . . . . .	3		
Total of persons, . . . . .	77		

9. *Reported Duration of Insanity before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER ADMISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	1	—	1	—	—	—	1	—	1
Under 1 month, . . . . .	5	6	11	—	1	1	5	7	12
From 1 to 3 months, . . . . .	15	10	25	—	2	2	15	12	27
3 to 6 months, . . . . .	6	5	11	—	1	1	6	6	12
6 to 12 months, . . . . .	8	3	11	1	3	4	9	6	15
1 to 2 years, . . . . .	5	10	15	2	1	3	7	11	18
2 to 5 years, . . . . .	3	9	12	5	3	8	8	12	20
5 to 10 years, . . . . .	2	1	3	—	4	4	2	5	7
10 to 20 years, . . . . .	2	1	3	1	1	2	3	2	5
Over 20 years, . . . . .	—	—	—	1	—	1	1	—	1
Unknown, . . . . .	18	7	25	3	1	4	21	8	29
Total of cases, . . . . .	65	52	117	13	17	30	78	69	147
Total of persons, . . . . .	65	52	117	13	16	29	77	65	142
Av'ge of known cases, . . . . .	1 $\frac{1}{2}$ yr.	1 $\frac{1}{2}$ yr.	1 $\frac{1}{2}$ yr.	7 $\frac{1}{2}$ yr.	9 $\frac{7}{16}$ yr.	8 $\frac{1}{2}$ yr.	2 $\frac{1}{2}$ yr.	3 $\frac{1}{2}$ yr.	3 $\frac{1}{2}$ yr.

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Total.
Mania, . . . . .	45	39	84
paretic, . . . . .	3	—	3
epileptic, . . . . .	3	—	3
Melancholia, . . . . .	16	20	36
Dementia, . . . . .	9	7	16
senile, . . . . .	1	—	1
epileptic, . . . . .	—	1	1
Not insane, . . . . .	1	2	3
Total of cases, . . . . .	78	69	147
Total of persons, . . . . .	77	65	142

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated. One patient is repeated, she being twice a readmission, and four are included who are in the first division, they having been admitted for the first and second times within the year.

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## 11. Probable Causes of Insanity in Persons Admitted.

CAUSES.	Males.	Females.	Total.
<i>Physical.</i>			
Congenital, . . . . .	1	—	1
Ill-health, . . . . .	1	12	13
Intemperance, . . . . .	9	4	13
Overwork, . . . . .	3	5	8
Epilepsy, . . . . .	4	—	4
Sunstroke, . . . . .	2	—	2
Masturbation, . . . . .	5	1	6
Injury of head, . . . . .	4	—	4
Injury, . . . . .	3	1	4
Malaria, . . . . .	1	1	2
Syphilis, . . . . .	1	—	1
Scarlet fever, . . . . .	—	1	1
Exhaustion, . . . . .	—	1	1
Puerperal, . . . . .	—	1	1
Change of life, . . . . .	—	7	7
Old age, . . . . .	—	1	1
Opium eating, . . . . .	—	1	1
Total of physical, . . . . .	34	36	70
<i>Mental</i>			
Pecuniary troubles, . . . . .	4	—	4
Loss of property, . . . . .	1	—	1
Disappointment, . . . . .	1	—	1
Domestic trouble, . . . . .	1	2	3
Trouble, . . . . .	—	3	3
Loss of child, . . . . .	—	1	1
Loss of friends, . . . . .	—	1	1
Grief, . . . . .	—	1	1
Hard study, . . . . .	—	1	1
Total of mental, . . . . .	7	9	16
Total of physical, . . . . .	34	36	70
Not insane, . . . . .	1	2	3
Unknown, . . . . .	35	18	53
Total of persons, . . . . .	77	65	142

*12. Relation to Hospitals of the Persons Admitted.*

	Males.	Females.	Total.
Never before in any hospital, . . . . .	57	45	102
Former inmates of this hospital, . . . . .	10	12	22
Former inmates of other hospitals in this State, . . . . .	2	7	9
Former inmates of this hospital and of other hospitals in this State, . . . . .	—	—	—
Former inmates of hospitals in other States, . . . . .	4	—	4
Former inmates of this hospital and of hospitals in other States, . . . . .	1	1	2
Former inmates of this hospital, of other hospitals in this State, and of hospitals in other States, . . . . .	—	—	—
Former inmate of this hospital, of hospitals in other States, and of a Canadian hospital, . . . . .	1	—	1
Former inmates of foreign hospitals: Canada; Madras, India, . . . . .	2	—	2
Total of persons, . . . . .	77	65	142

## 13. Discharges Classified by Admission and Results.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, .	10	13	23	8	-	8	16	11	27	18	12	30	16	8	24	68	44	112
Second, .	1	1	2	-	-	-	1	1	2	2	1	3	1	4	5	6	7	12
Third, .	-	2	2	-	-	-	-	1	1	-	-	-	-	-	-	-	3	3
Fourth, .	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1	1	2	2
Fifth, .	-	1	1	-	-	-	1	1	2	-	1	1	-	-	-	1	3	4
Sixth, .	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	1
Tenth, .	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Total of cases, .	11	17	28	9	-	9	18	15	33	21	14	35	17	13	30	76	69	135
Total of persons, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	76	69	135

One woman and one man were discharged as not insane, making the total of cases 137.

14. *How Supported.*

SUPPORTED AS	PATIENTS ADMITTED.			AVERAGE OF THE YEAR.		
	Males.	Females.	Total.	Males.	Females.	Total.
State patients, . . .	27	14	41	87.34	74.28	161.62
Town patients, . . .	38	40	78	118.98	128.65	247.63
Private patients, . . .	13	15	28	29.26	28.32	57.58
Total of cases, . . .	78	69	147	—	—	466.83*

15. *Cases Discharged Recovered. — Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . .	1	3	4	2	—	2	—	—	—
From 1 to 3 months, . . .	3	10	13	5	4	9	2	2	4
3 to 6 months, . . .	1	1	2	2	5	7	2	4	6
6 to 12 months, . . .	2	—	2	2	4	6	1	5	6
1 to 2 years, . . .	—	1	1	—	2	2	2	2	4
2 to 5 years, . . .	—	—	—	—	1	1	—	2	2
5 to 10 years, . . .	—	—	—	—	1	1	—	—	—
10 to 20 years, . . .	—	1	1	—	—	—	—	1	1
Over 20 years, . . .	—	—	—	—	—	—	—	—	—
Unknown, . . .	4	1	5	—	—	—	4	1	5
Total of cases, . . .	11	17	28	11	17	28	11	17	28
Total of persons, . . .	11	17	28	11	17	28	11	17	28
Average of known cases (in months), . . .	4 $\frac{1}{2}$	13 $\frac{3}{16}$	10 $\frac{1}{2}$	3	12 $\frac{7}{17}$	8 $\frac{1}{2}$	8	20 $\frac{5}{16}$	16 $\frac{1}{2}$

\* This, the *weekly* average, is larger by  $\frac{7}{160}$  than the *daily* average, which is 466.76.

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## 16. Cases Resulting in Death. — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	—	1	1	1	—	1	—	—	—
From 1 to 3 months, . . . . .	4	—	4	2	1	3	—	—	—
3 to 6 months, . . . . .	1	3	4	1	1	2	1	—	1
6 to 12 months, . . . . .	3	1	4	1	—	1	2	1	3
1 to 2 years, . . . . .	3	3	6	2	1	3	3	—	3
2 to 5 years, . . . . .	1	2	3	1	4	5	2	4	6
5 to 10 years, . . . . .	1	—	1	3	4	7	—	2	2
10 to 20 years, . . . . .	2	1	3	2	2	4	1	3	4
Over 20 years, . . . . .	1	—	1	4	—	4	7	1	8
Unknown, . . . . .	1	2	3	—	—	—	1	2	3
Total, . . . . .	17	13	30	17	13	30	17	13	30
Average of known cases (in months), . . . . .	62 $\frac{1}{2}$	29 $\frac{1}{2}$	49	109 $\frac{1}{2}$	69 $\frac{1}{2}$	92 $\frac{1}{2}$	169 $\frac{1}{2}$	100 $\frac{1}{2}$	141 $\frac{1}{2}$

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Mania, . . . . .	10	11	21	10	10	20
paretic, . . . . .	—	—	—	3	—	3
epileptic, . . . . .	—	—	—	1	1	2
Mania à potu, . . . . .	1	—	1	—	—	—
Melancholia, . . . . .	—	6	6	—	2	2
Dementia, . . . . .	—	—	—	2	—	2
senile, . . . . .	—	—	—	1	—	1
Total of cases . . . . .	11	17	28	17	13	30
Total of persons, . . . . .	11	17	28	17	13	30

## 18. Causes of Death.

CAUSES.	Males.	Females.	Total.
<i>Nervous System.</i> —Epilepsy, . . . .	1	1	2
Apoplexy, . . . .	2	—	2
Paresis, . . . .	3	—	3
Exhaustion of acute mania, . . . .	1	—	1
Exhaustion of chronic mania, . . . .	3	2	5
<i>Circulatory.</i> —Fatty degeneration of the heart, . . . .	1	—	1
<i>Respiratory.</i> —Phthisis, . . . .	3	6	9
<i>Digestive.</i> —Enteritis, . . . .	1	1	2
Enteritis of peritoneum, . . . .	1	—	1
<i>Generative.</i> —Ovarian tumor, . . . .	—	1	1
<i>General.</i> —Old age, . . . .	1	2	3
Totals, . . . .	17	13	30

## 19. Deaths, Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . .	—	4	4	—	1	1	—	—	—	1	—	1	1	5	6
Second, . .	—	1	1	—	—	—	—	—	—	—	—	—	—	1	1
Third, . . .	—	—	—	—	—	—	—	1	1	—	—	—	—	1	1
Total of cases,	—	5	5	—	1	1	—	1	1	1	—	1	1	7	8*

\* These eight cases represent but six persons, one of the persons having had three former admissions, and consequently three results.



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## 20. Recoveries, Classified by Results of Previous Admissions.\*

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Second, . . .	1	1	2	-	-	-	-	-	-	-	-	-	1	1	2
Third, . . .	-	1	1	-	1	1	-	-	-	-	-	-	-	2	2
Fifth, . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Total, . . .	1	3	4	-	1	1	-	-	-	-	-	-	1	4	5

## 21. Deaths, Classified by Duration of Insanity and of Treatment.

PERIOD.	DURATION OF INSANITY. "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital, . . .	-	-	-	-	-	-
Under 1 month, . . .	-	-	-	-	-	-
From 1 to 3 months, . . .	1	-	1	2	1	3
3 to 6 months, . . .	1	-	1	2	1	3
6 to 12 months, . . .	1	1	2	-	1	1
1 to 2 years, . . .	3	-	3	2	-	2
2 to 5 years, . . .	2	3	5	1	4	5
5 to 10 years, . . .	-	1	1	3	1	4
10 to 20 years, . . .	1	2	3	3	5	8
Over 20 years, . . .	7	3	10	4	-	4
Unknown, . . .	1	3	4	-	-	-
Totals, . . .	17	13	30	17	13	30
Average of known cases (in months), . . .	169 $\frac{1}{8}$	150 $\frac{3}{8}$	162 $\frac{4}{8}$	115 $\frac{7}{17}$	83 $\frac{4}{13}$	101 $\frac{1}{2}$

\* In all cases of more than one admission, this classification is based upon the result of the admission next preceding the last, in each case respectively.

22. *Ages of those who Died.*

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Total.	Males.	Females.	Total.
Fifteen years and less, . . .	2	—	2	—	—	—
From 15 to 20 years, . . .	1	1	2	—	1	1
20 to 25 years, . . .	—	2	2	—	—	—
25 to 30 years, . . .	1	3	4	—	1	1
30 to 35 years, . . .	2	—	2	1	2	3
35 to 40 years, . . .	5	1	6	3	2	5
40 to 50 years, . . .	3	2	5	6	2	8
50 to 60 years, . . .	1	1	2	1	1	2
60 to 70 years, . . .	—	—	—	5	2	7
70 to 80 years, . . .	—	1	1	1	2	3
Over 80 years, . . .	—	—	—	—	—	—
Unknown, . . .	2	2	4	—	—	—
Totals, . . .	17	13	30	17	13	30

23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1883.

YEARS.	ADMITTED.			DISCHARGED AND DIED IN 1882-83.												NEW CASES (FIRST ADMISSIONS).		
	Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.		
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.			
1858, 2 months.	99	129	228															
1858-59.	42	46	88															
1859-60.	66	91	157															
1860-61.	58	46	104															
1861-62.	51	43	94															
1862-63.	56	57	113															
1863-64.	35	30	65															
1864-65.	54	55	109															
1865-66.	66	52	118															
1866-67.	42	69	111															
1867-68.	54	71	125															
1868-69.	72	64	136															
1869-70.	80	103	183															
1870-71.	93	88	181															
1871-72.	83	85	168															
1872-73.	89	69	158															

	1973-74,	1974-75,	1975-76,	1976-77,	1977-78,	1978-79,	1979-80,	1980-81,	1981-82,	1982-83,	Totals,
86	155	128	126	110	65	88	97	97	102	117	1,598
69	155	128	126	110	65	88	97	97	102	117	1,605
1	-	-	-	-	-	-	-	1	3	5	8
23	-	-	-	-	-	-	-	10	12	13	28
13	-	-	-	-	-	-	-	7	5	6	18
8	-	-	-	-	-	-	-	3	5	6	16
11	-	-	-	-	-	-	-	6	9	11	27
27	-	-	-	-	-	-	-	15	12	18	45
18	-	-	-	-	-	-	-	2	4	3	9
12	-	-	-	-	-	-	-	6	3	12	21
30	-	-	-	-	-	-	-	1	2	15	18
16	-	-	-	-	-	-	-	1	1	5	8
8	-	-	-	-	-	-	-	1	1	-	2
24	-	-	-	-	-	-	-	1	1	-	2

One man and one woman discharged as not insane, are not included in this table.

23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1883 — Concluded.

YEARS.	RE-ADMITTED CASES.										REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1883.					
	ADMITTED.			DISCHARGED AND DIED IN 1882-83.												
	Males.	Females.	Total.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		DIED.		Males.	Females.	Total.
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.			
1858, 2 months,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16
1858-59,	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	3
1859-60,	7	3	10	—	—	—	—	—	—	—	—	—	—	—	—	5
1860-61,	13	7	20	—	—	—	—	—	—	—	—	—	—	—	—	4
1861-62,	13	5	18	—	—	—	—	—	—	—	—	—	—	—	—	2
1862-63,	14	11	25	—	—	—	—	—	—	—	—	—	—	—	—	5
1863-64,	12	15	27	—	—	—	—	—	—	—	—	—	—	—	—	2
1864-65,	16	9	25	—	—	—	—	—	—	—	—	—	—	—	—	6
1865-66,	9	9	18	—	—	—	—	—	—	—	—	—	—	—	—	5
1866-67,	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—	6
1867-68,	14	13	27	—	—	—	—	—	—	—	—	—	—	—	—	7
1868-69,	12	21	33	—	—	—	—	—	—	—	—	—	—	—	—	12
1869-70,	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—	9
1870-71,	16	14	30	—	—	—	—	—	—	—	—	—	—	—	—	22
1871-72,	18	13	31	—	—	—	—	—	—	—	—	—	—	—	—	17
1872-73,	13	10	23	—	—	—	—	—	—	—	—	—	—	—	—	15

1873-74,	19	19	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	15	27
1874-75,	14	16	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	13	29
1875-76,	13	14	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	13	28
1876-77,	13	16	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	19	38
1877-78,	9	12	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	6	15
1878-79,	14	9	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	6	14
1879-80,	8	10	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	12	23
1880-81,	9	17	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	21	36
1881-82,	12	10	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	19	37
1882-83,	13	17	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	51	87
Totals, . .	314	288	602	1	4	5	1	-	1	2	4	6	3	2	5	1	5	6	6	230	239	469		

## 24. Relapsed Cases admitted in each year, and discharged in 1882-83.

YEARS	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.															REMAINING SEPT. 30, 1883.		
	ADMITTED.			DISCHARGED AND DIED IN 1868-83.														
	Males.	Females.	Total.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		DIED.		Males.	Females.	Total.		
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.				Females.	Total.
1858, 2 months,	2	1	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1858-59,	2	1	3	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1859-60,	5	2	7	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1860-61,	8	7	15	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1861-62,	6	2	8	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1862-63,	5	8	13	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1863-64,	6	10	16	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1864-65,	8	4	12	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1865-66,	4	8	12	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1866-67,	11	6	17	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1867-68,	8	7	15	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1868-69,	6	9	15	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1869-70,	6	4	9	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1870-71,	5	6	11	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1871-72,	8	6	14	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1872-73,	6	6	11	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1873-74,	7	8	15	1	1	2	1	1	1	1	1	1	1	1	1	1	1	
1874-75,	2	5	7	1	1	2	1	1	1	1	1	1	1	1	1	1	1	

1876-76.	5	6	11	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
1876-77,	7	8	15	-	-	-	-	-	-	-	-	-	-	-	-	-	6	1	6
1877-78,	4	6	10	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
1878-79,	4	5	9	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
1879-80,	3	6	9	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
1880-81,	1	7	8	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2	3
1881-82,	6	4	10	1	1	2	-	1	1	1	1	1	1	1	1	1	1	1	1
1882-83,	-	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	6
Totals, .	132	138	270	1	3	4	-	-	-	1	3	4	1	1	-	3	8	14	22



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## 25. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Total.
<i>Monthly Average.</i>				
1864-65, . . .	225.10	48.16	69.83	343.25
1865-66, . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . .	261.96	49.46	89.75	401.17
1867-68, . . .	262.65	47.92	103.06	413.63
1868-69, . . .	248.52	54.98	101.46	404.96
1869-70, . . .	236.19	65.04	107.23	408.46
1870-71, . . .	234.10	77.07	118.38	429.55
1871-72, . . .	226.96	89.57	112.27	428.80
1872-73, . . .	248.02	99.23	90.00	437.25
1873-74, . . .	284.48	102.88	82.06	469.42
1874-75, . . .	274.35	128.34	72.46	475.15
1875-76, . . .	259.19	146.02	68.94	474.15
1876-77, . . .	254.84	161.58	60.02	476.44
1877-78, . . .	211.90	175.71	54.75	442.36
1878-79, . . .	200.34	182.29	54.23	436.86
1879-80, . . .	197.03	198.01	55.46	450.50
1880-81, . . .	180.82	214.15	57.19	452.15
1881-82, . . .	166.84	238.25	56.52	461.61
1882-83, . . .	161.62	247.63	57.58	466.83

## 26. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1882.</b>		
October, . . . . .	34,950	1,127.42
November, . . . . .	41,450	1,381.66
December, . . . . .	48,400	1,561.29
<b>1883.</b>		
January, . . . . .	46,500	1,500.00
February, . . . . .	36,500	1,303.57
March, . . . . .	30,950	998.88
April, . . . . .	23,450	781.66
May, . . . . .	16,450	530.64
June, . . . . .	12,450	415.00
July, . . . . .	14,000	451.61
August, . . . . .	16,200	522.98
September, . . . . .	26,000	866.66
Totals, . . . . .	347,300	951.50*

\* Daily average for the year.

## 27. Supplies for the Several Departments for the Year 1882-83.

	Shells.	Pillow-cases.	Bed-spreads.	Blankets.	Rubber Sheets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtilins.	Wash-bowls.	Ewers.	Chambers.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Saucers.	Tumblers.	Mugs.	Bowls.	Pitchers.	Syrup Cups.	Knives.	Forks.	Lanterns.
<i>Men's Department.</i>																											
Upper 1st Hall, . . .	6	6	—	2	—	—	—	12	—	—	—	—	—	—	—	—	—	12	—	—	30	—	6	—	—	—	—
2d Hall, . . .	16	42	6	20	—	—	—	12	10	—	—	15	—	—	—	—	—	18	24	—	28	—	4	—	—	—	—
3d and 4th Halls, . .	12	36	10	20	—	—	—	12	—	—	—	16	—	—	—	—	—	12	12	—	3	—	2	—	—	—	—
Middle 1st Hall, . . .	38	24	4	10	—	—	—	3	—	—	—	10	—	—	—	—	—	6	6	—	—	—	—	—	—	—	—
2d Hall, . . .	24	12	4	15	—	—	—	6	—	—	—	11	—	—	—	—	—	24	6	—	—	—	—	—	—	—	—
3d and 4th Halls, . .	60	32	—	18	—	—	—	8	—	—	—	16	—	—	—	—	—	12	12	—	—	—	—	—	—	—	—
Lower 1st Hall, . . .	24	12	—	—	—	—	—	4	5	—	—	15	—	—	—	—	—	6	6	—	—	—	—	—	—	—	—
2d Hall, . . .	24	12	—	—	—	—	—	—	—	—	—	15	—	—	—	—	—	—	12	—	—	—	—	—	—	—	—
3d and 4th Halls, . .	54	40	—	18	—	—	—	12	—	—	—	28	—	—	—	—	—	6	—	—	2	—	2	—	—	—	—
<i>Women's Department.</i>																											
Upper 1st Hall, . . .	3	24	—	—	—	—	—	36	2	2	—	6	—	—	—	—	6	—	—	—	—	6	—	—	—	—	—
2d Hall, . . .	12	24	—	—	—	—	—	34	6	1	—	12	—	—	—	—	—	6	6	—	18	6	—	—	—	—	—
3d Hall, . . .	12	24	—	—	—	—	—	18	—	—	—	9	—	—	—	—	—	6	6	—	6	—	—	—	—	—	—
4th Hall, . . .	12	12	—	—	—	—	—	48	3	1	—	1	—	—	—	—	—	6	6	—	12	—	—	—	—	—	—
Middle 1st Hall, . . .	6	32	—	1	—	—	—	—	6	1	—	39	—	—	—	—	—	12	24	—	—	—	—	—	—	—	—
2d Hall, . . .	24	36	6	12	3	—	—	—	6	—	—	6	—	—	—	—	—	12	6	—	—	—	—	—	—	—	—
3d Hall, . . .	24	12	6	1	4	—	—	30	2	—	—	6	—	—	—	—	—	12	12	—	—	—	—	—	—	—	—
4th Hall, . . .	—	—	—	6	6	—	—	12	4	—	—	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lower 1st Hall, . . .	24	—	6	6	4	—	—	22	3	1	—	6	—	—	—	—	—	—	12	—	—	—	—	—	—	—	—
2d Hall, . . .	60	48	12	24	7	—	—	42	2	1	—	48	—	—	—	—	—	—	12	—	—	—	—	—	—	—	—
3d Hall, . . .	24	12	12	6	2	—	—	24	2	—	—	18	—	—	—	—	—	—	12	—	—	—	—	—	—	—	—
4th Hall, . . .	—	—	—	2	—	—	—	6	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kitchen, . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rear, . . .	14	29	6	5	—	—	—	31	5	—	—	6	—	—	—	—	—	36	36	—	—	—	—	—	—	—	—
Centre, . . .	4	3	—	—	—	—	—	22	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aggregate, . . .	475	496	68	162	39	110	45	403	61	10	4	293	9	12	136	43	330	144	186	153	91	105	30	7	42	20	4

## 27. Supplies for the Several Departments for the Year 1882-83. — Concluded.

	Rapors.	Glass Canisters.	Table-spreads.	Naipkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish-towels.	Kollers.	Wash-basins.	Soap, pounds.	Brooms.	Whisks.	Dust-brushes.	Scrub-brushes.	Dust-pans.	Mops.	Falls.	Spittoons.	Blacking.	Shoe-brushes.	Spools Thread.	Stains Thread.	Rapors Needles.	Rapors Pins.	Rubber Chambers.
<i>Men's Department.</i>																										
Upper 1st Hall, . . .	2	—	—	18	—	—	—	18	—	—	52	10	4	1	—	—	—	1	1	—	11	1	—	—	—	—
2d Hall, . . .	3	—	—	12	18	—	12	12	18	1	30	15	1	1	—	—	—	—	1	—	6	2	—	—	—	—
3d and 4th Halls, . .	—	—	—	12	12	—	12	12	12	—	66	19	1	2	—	—	—	—	1	—	10	1	—	—	—	—
Middle 1st Hall, . . .	—	—	—	12	6	—	—	12	6	—	28	13	2	1	—	—	—	—	—	—	10	1	—	—	—	—
2d Hall, . . .	8	—	—	30	—	—	30	30	—	—	54	24	1	1	—	—	—	3	1	1	29	2	—	—	—	—
3d and 4th Halls, . .	—	—	—	30	—	—	30	30	—	—	66	31	2	1	—	—	—	9	1	1	29	1	—	—	—	—
Lower 1st Hall, . . .	—	—	—	12	6	—	—	6	—	1	28	12	1	1	—	—	—	1	1	1	12	1	—	—	—	—
2d Hall, . . .	—	—	—	24	6	—	12	24	6	1	60	16	1	1	—	—	—	6	1	1	19	1	—	—	—	—
3d and 4th Halls, . .	—	—	—	40	18	—	40	36	18	—	68	23	2	1	—	—	—	9	4	1	18	2	—	—	—	—
<i>Women's Department.</i>																										
Upper 1st Hall, . . .	3	—	—	12	—	—	—	6	—	—	36	5	—	—	—	—	—	1	1	—	—	—	—	—	—	—
2d Hall, . . .	—	—	—	—	—	—	6	—	—	—	44	15	—	1	—	—	—	2	1	—	—	—	—	—	—	—
3d Hall, . . .	—	—	—	12	—	—	12	12	—	1	52	11	—	1	—	—	—	1	—	—	—	—	—	—	—	—
4th Hall, . . .	3	—	—	—	—	—	—	12	—	—	50	6	—	1	—	—	—	1	—	—	—	—	—	—	—	—
Middle 1st Hall, . . .	—	—	—	—	—	—	12	6	—	—	46	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2d Hall, . . .	3	—	—	6	—	—	36	—	—	—	62	23	1	1	—	—	—	4	6	—	—	—	—	—	—	—
3d Hall, . . .	—	—	—	6	—	—	6	—	—	—	50	15	1	1	—	—	—	3	—	—	—	—	—	—	—	—
4th Hall, . . .	1	—	—	—	—	—	6	—	—	—	46	13	1	2	—	—	—	1	1	—	—	—	—	—	—	—
Lower 1st Hall, . . .	—	—	—	12	—	—	—	12	—	—	42	16	1	1	—	—	—	3	4	—	—	—	—	—	—	—
2d Hall, . . .	3	—	—	18	18	—	54	18	—	1	92	23	—	1	—	—	—	2	—	—	—	—	—	—	—	—
3d Hall, . . .	—	—	—	—	—	—	—	6	—	1	78	12	—	—	—	—	—	2	1	—	—	—	—	—	—	—
4th Hall, . . .	—	—	—	12	—	—	—	6	—	—	16	5	—	—	—	—	—	2	—	—	—	—	—	—	—	—
Kitchen, . . .	—	—	—	12	8	—	12	8	12	—	65	61	—	1	—	—	—	3	1	—	—	—	—	—	—	—
Rear, . . .	—	—	—	—	—	—	—	—	—	—	174	85	4	4	—	—	—	2	1	—	—	—	—	—	—	—
Centre, . . .	—	—	—	6	—	—	—	6	—	—	24	3	2	—	—	—	—	1	1	—	—	—	—	—	—	—
Aggregate, . . .	26	12	18	48	60	328	248	78	78	6	1,175	468	21	25	25	12	67	27	4	144	11	177	—	33	104	14

28. *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Total.	Women.	Men.	Women.	Total.
<b>1882.</b>								
October, .	642	124	242	366	123	50	361	411
November, .	613	120	293	353	145	45	374	419
December, .	576	124	243	367	140	52	374	426
<b>1883.</b>								
January, .	550	124	242	366	138	54	373	427
February, .	448	112	225	337	109	48	328	376
March, .	477	124	231	355	154	54	366	420
April, .	698	120	236	356	125	50	342	392
May, .	869	124	241	365	185	54	370	424
June, .	1,081	120	236	356	144	52	339	391
July, .	1,196	124	253	377	158	52	372	424
August, .	1,024	124	251	375	150	54	391	445
September, .	1,039	120	240	360	136	50	319	369
Totals, .	9,213	1,460	2,873	4,333	1,707	615	4,309	4,924

The patients whose work is recorded in this table, were employed as many hours in the day as were the employes in each of the several departments respectively. The total number of days' work is 20,177, to which may be added 1,081 days by men, in the mattress room, making an aggregate of 21,258 days. The number is larger, by more than two thousand, than in any preceding year. No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler room, and the carpenter's shop. A large amount of other work is done, both in the halls, and, at irregular times, out of them.

29. *List of Articles made in the Sewing-room.*

Dresses, . . . . .	271	Pillow-cases, . . . . .	420
Chemises, . . . . .	121	Bolster-cases, . . . . .	31
Drawers, . . . . .	74	Mattress-ticks, . . . . .	127
Skirts, . . . . .	124	Feather-ticks, . . . . .	32
Sacques, . . . . .	8	Pillow-ticks, . . . . .	40
Night-dresses, . . . . .	11	Bed-spreads hemmed, . . . . .	63
Hats trimmed, . . . . .	60	Curtains, . . . . .	54
Shirts, . . . . .	426	Table-cloths, . . . . .	17
Shirts, duck, . . . . .	6	Dish towels, . . . . .	450
Suspenders, pairs, . . . . .	224	Roller towels, . . . . .	115
Collars, . . . . .	256	Carpets made, . . . . .	12
Aprons, . . . . .	201	Clothes-bags, . . . . .	10
Camisoles, . . . . .	10	Bureau spreads, . . . . .	37
Handkerchiefs, . . . . .	5	Cushions, . . . . .	4
Sheets, . . . . .	521	Articles repaired, . . . . .	18,825

30. *Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	52
Hair mattresses made, new ticks, . . . . .	39
Hair mattresses made, old ticks, new hair, . . . . .	12
Hair mattresses overhauled, hair repicked, . . . . .	19
Husk mattresses made, new materials, . . . . .	15
Husk mattresses made, new ticks, old husks, . . . . .	11
New husk underbeds made, new materials, . . . . .	13
Old underbed ticks filled with new husks, . . . . .	104
Hair pillows made, new materials, . . . . .	20
Hair pillows overhauled, hair repicked, . . . . .	23
Sixty-five feather beds, bought before the hospital was opened, were overhauled, the feathers cleansed by steam off the premises, and the beds remade, forty-one of them with new ticks made here.	

*31. Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10

The hospital has always been supplied with gas by the Northampton Gas Light Company. Until April 1, 1879, the price was \$3.25 per thousand cubic feet, with an additional charge for meter-rent. Since that time it has been but \$3.00, including meter-rent, and during the last two years with a discount of 5 per cent.

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## 32. Trustees of the Northampton Lunatic Hospital.

NAME.	RESIDENCE.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,* .	Northampton, .	1856	1857	Term expired.
Lucien C. Boynton, .	Uxbridge, .	1856	1858	" "
Eliphalet Trask, .	Springfield, .	1856	1875	" "
John C. Russell,* .	Great Barrington,	1856	1859	Resigned.
Horace Lyman, .	Greenfield, .	1856	1857	Removed.
Charles Smith, .	Northampton,	1857	1860	Resigned.
Luther V. Bell,* .	Somerville, .	1857	1859	"
Zebina L. Raymond,*	Greenfield, .	1858	1859	"
Franklin Ripley,* .	Greenfield, .	1859	1860	Died in office.
Edward Dickinson,*	Amherst, .	1859	1864	Resigned.
Walter Lakin,* .	Pittsfield, .	1859	1866	Term expired.
Silas M. Smith, .	Northampton,	1860	1863	" "
Charles Allen, .	Greenfield, .	1860	1861	Resigned.
Alfred R. Field,*	Greenfield, .	1861	1864	"
Edward Hitchcock, .	Amherst, .	1863	1879	"
Silas M. Smith,	Northampton, .	1864	-	Still in office.
Edmund H. Sawyer,*	Easthampton, .	1864	1879	Died in office.
Henry L. Sabin, .	Williamstown, .	1866	1876	Term expired.
Adams C. Deane,	Greenfield, .	1875	-	Still in office.
Henry W. Taft, .	Pittsfield, .	1876	-	" "
William M. Gaylord,	Northampton, .	1879	1883	Term expired.
Lyman D. James,	Williamsburg, .	1879	-	Still in office.
Christop'r C. Merritt,	Springfield, .	1883	-	" "

Deceased.

33. *Officers and Employés.*

Time employed, March 1, 1883.

NAME.	Years.	Months.	Days.
Pliny Earle, M. D., Superintendent, . . .	18	7	26
Edward B. Nims, M. D., Ass't Sup't, . . .	14	2	14
Daniel Pickard, M. D., 1st Ass't Physician, . . .	5	10	22
David G. Hall, M. D., 2d Ass't Physician, . . .	—	8	13
Walter B. Welton, Clerk, . . . . .	17	—	14
John Mercier, Farmer, . . . . .	15	8	—
Danford Morse, Engineer, . . . . .	18	—	7
Robert H. Gallivan, Supervisor, . . . . .	9	10	11
Lucy A. Gilbert, Supervisor, . . . . .	16	—	18
F. Josephus Rice, Steward, . . . . .	24	4	24
Mary Ward, Seamstress, . . . . .	12	6	3
Charles Ziehlké, Baker, . . . . .	20	6	—
Frances C. Earle, Assistant Clerk, . . . . .	10	11	6
Minnie J. Guilloil, Assistant Supervisor, . . . . .	4	5	24
Adelle Ford, Assistant Seamstress, . . . . .	1	6	8
Minnie J. Howes, Laundress, . . . . .	4	—	26
Victoria S. Pillinger, Assistant Laundress, . . . . .	6	8	9
Walter E. Pillinger, Attendant, . . . . .	8	9	29
Willard C. Ellis, Attendant, . . . . .	3	7	—
Edward Connors, Attendant, . . . . .	1	8	9
Henry W. Estey, Attendant, . . . . .	—	11	5
Frank L. Merrill, Attendant, . . . . .	—	11	4
William J. Douglass, Attendant, . . . . .	—	11	3
Clarence E. Fowler, Attendant, . . . . .	—	11	7
James R. Hawkes, Attendant, . . . . .	—	10	19
John L. Howard, Attendant, . . . . .	—	8	23
Myron O. Barnard, Attendant, . . . . .	—	1	17
James J. Douglass, Attendant, . . . . .	—	—	8
Maria E. Graves, Attendant, . . . . .	15	1	7
Martha R. Harris, Attendant, . . . . .	8	6	7
Jane McGuire, Attendant, . . . . .	7	10	3
Mary B. Ransom, Attendant, . . . . .	7	3	15
Cécile Riel, Attendant, . . . . .	6	4	23
F. F. Poor, Attendant, . . . . .	4	4	13
Naomi A. Griffin, Attendant, . . . . .	2	9	21
Laura G. Barrett, Attendant, . . . . .	1	8	4
Barbara McDonald, Attendant, . . . . .	1	7	9
Lillie V. Austin, Attendant, . . . . .	—	8	29
Phebe Dimock, Attendant, . . . . .	—	8	—
Philomène Goyette, Attendant, . . . . .	—	7	16
Sadie A. McNeill, Attendant, . . . . .	—	3	22
Céleste Goyette, Attendant, . . . . .	—	3	3
Flora R. Brown, Attendant, . . . . .	—	2	25
Emma Moodie, Attendant, . . . . .	—	2	—
Jessie A. Rand, Night Watch, . . . . .	1	8	11
Hattie Halladay, Farmers' Dining Room, . . . . .	8	7	14
Katie M. Aldrich, Centre, . . . . .	2	10	8
Ida R. Howes, Centre, . . . . .	3	6	18
Thomas C. Powers, . . . . .	8	11	11
Nellie Halladay, Cook, . . . . .	5	4	—



# 64 LUNATIC HOSPITAL, NORTHAMPTON. [Oct. '83.

## *Officers and Employés — Concluded.*

NAME.	Years.	Months.	Days.
Lillian M. Works, Assistant Cook, . . .	1	4	22
Lillian M. Ferry, Assistant Cook, . . .	—	5	3
William C. Hall, Assistant Engineer, . . .	17	5	17
Nicholas Riel, Night Engineer, . . .	7	2	25
Andrew N. Thorington, Watchman, . . .	12	1	30
Sifroi Belville, Carpenter, . . .	12	10	7
Walter Tower, Carpenter, . . .	6	3	—
Alfred Parenteau, Painter, . . .	17	6	18
David Mercier, Coachman, . . .	6	—	14
Charles Egen, Assistant Baker, . . .	5	5	4
Benjamin Rockwell, Assistant Farmer, . . .	15	9	—
Elson E. Howes, Assistant Farmer, . . .	5	11	23
Julius Freeman, Assistant Farmer, . . .	5	7	24
Henry Wilson, Assistant Farmer, . . .	3	10	8
Erie L. Ditty, Assistant Farmer, . . .	2	9	26
William Simpson, Assistant Farmer, . . .	1	5	—
George E. Mason, Assistant Farmer, . . .	—	8	28

Thirteen of the persons have not been in their present situations during the whole period of service; for example, the supervisors, the assistant supervisor, and the seamstress, were formerly attendants.

Nine of the persons have been employed more than once. In these instances the table gives the total time of service.

TWENTY-NINTH ANNUAL REPORT

OF

THE TRUSTEES

OF THE

STATE LUNATIC HOSPITAL

AT NORTHAMPTON,

FOR THE YEAR ENDING SEPTEMBER 30, 1884.

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BOSTON:  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,  
18 POST OFFICE SQUARE.  
1885.



# OFFICERS OF THE NORTHAMPTON LUNATIC HOSPITAL.

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## TRUSTEES.

ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.
HENRY W. TAFT, Esq., . . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG.
HON. CHRISTOPHER C. MERRITT, . . . . .	SPRINGFIELD.
SILAS M. SMITH, Esq., . . . . .	NORTHAMPTON.
MRS. SARAH M. BUTLER, . . . . .	NORTHAMPTON.
MRS. SARAH A. WOODWORTH, . . . . .	CHICOPEE.

---

## RÉSIDENT OFFICERS.

PLINY EARLE, A.M., M.D., . . . . .	SUPERINTENDENT.
EDWARD B. NIMS, M.D., . . . . .	ASSISTANT SUPERINTENDENT.
DANIEL PICKARD, M.D., . . . . .	FIRST ASSISTANT PHYSICIAN.
DAVID G. HALL, M.D., . . . . .	SECOND ASSISTANT PHYSICIAN.
WALTER B. WELTON, . . . . .	CLERK.
JOHN MERCIER, . . . . .	FARMER.
DANFORD MORSE, . . . . .	ENGINEER.

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## TREASURER.

PLINY EARLE, . . . . .	NORTHAMPTON.
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Office at the Hospital.

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## SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	MALE SUPERVISOR.
LUCY A. GILBERT, . . . . .	FEMALE SUPERVISOR.
F. JOSEPHUS RICE, . . . . .	STEWARD.
MARY E. WARD, . . . . .	SEAMSTRESS.
IDA D. HYDE, . . . . .	LAUNDRESS.
GEORGE B. WALKER, . . . . .	BAKER.



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# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth  
and the Honorable Council.*

Another fiscal year of the Northampton Lunatic Hospital having expired, the Trustees to whom the general direction and management of that institution are confided have the honor to present you a summary account of their proceedings, and of the general results of the operations of that charity during the mentioned period, — making their twenty-ninth annual report.

The by-laws of the hospital require a constant monthly meeting of our Board. These meetings have been regularly held, on the first Thursday in each month respectively, and the attendance upon them has been considerably larger than is required by law. At each of these meetings the apartments of the patients were visited and inspected. The member of the Board who resides in Northampton visits the hospital frequently, and often goes through those apartments at irregular times, sometimes accompanied by one of the physicians, and sometimes alone.

At the close of the next preceding fiscal year, September 30, 1883, the number of patients in the hospital was 469, 230 of whom were men and 239 women. The number admitted within the year covered by this report was, of men 61 and of women 75, making a total of 136. The whole number of patients who received the benefit of the hospital in the course of the year was consequently 605, of whom 291 were men and 314 women.



Not including deaths, the whole number of patients discharged was 117, 50 of them being men and 67 women. Twelve men and 13 women, a total of 25, died.

Of the 463 patients remaining in the hospital at the end of the fiscal year, September 30, 1884, 229 were men and 234 women. The daily average number of patients in the house was, of men 227 and of women 236, a total of 463. This number is less by three than in the next foregoing year. The maximum number in the house on any day within the year was 474, on the 26th of March.

This was not so large by eleven as the largest number in the next foregoing year. The smallest number on any day was 455, on each of nine days in June. This number exceeds by three the corresponding number of the preceding year.

The results of treatment of the 117 patients who were discharged, are recorded as recovered in 25 instances, much improved in 17, improved in 35, unimproved in 36, and not insane in 4.

For the details of the operations of the hospital, and of the results thereof in respect to the chief objects of the institution, the custody and cure of the persons committed to its care, you are referred to the accompanying report of the Superintendent, and the Appendix of statistical tables thereto attached.

The only department of the hospital in which wood is used as fuel is the bakery. As the waste wood upon the farm is more than sufficient to supply the fire for baking purposes, it was thought best, as being more economical, when the oven was rebuilt a few years ago, not to construct it for coal, a fuel requiring less labor in its preparation and use. Until late in the autumn of 1883, the wood had been housed and sawed in the basement of the north wing of the hospital. This place was thought to be a source of danger, and consequently it was decided to prepare another, entirely detached from the hospital edifice. For this purpose an extension of the scullery had already been begun at the time of our report one year ago. It was completed and put in use before the coming of winter. This arrangement is found, in

practice, to be more convenient than the old one, and more cleanly, as well as less liable to dangerous accidents.

Prior to the introduction of the Roberts meadow water, the hospital had been supplied with water from a permanent spring upon the premises, about fifty rods from the central building. The water was raised by a steam-pump, from a reservoir near the spring, to the tanks in the attic. Ever since the contract was made with the commissioners of the public water-works, the pump-house and its machinery have been kept in working order, so that, in the event of any accident by which the supply from Roberts meadow should be cut off, recourse could be had to the house supply. But by the high wind on the 28th of December last, the chimney of the pump-house was overthrown, breaking off near the ground. It was found to have been very imperfectly constructed, the walls not thick enough, and the brick of all but the outside course insufficiently burned.

The importance of an unfailing supply of water is such that we did not hesitate in a decision to rebuild it; but as midwinter was approaching, the work was postponed to the opening of spring. The foundation for a new chimney was begun on the 11th of April, and the chimney finished early in May. It is six and a half feet square at the bottom, and 65 feet 4 inches in height, or about eighteen feet higher than the old one, which had never given a sufficiently strong and reliable draught.

A room in the basement of the south wing has hitherto been used as a paint-shop. Here were stored the oil, the spirits of turpentine and the other materials for painting. As all the liquids are bought by the tierce or the barrel, the quantity on hand is sometimes pretty large. In order to remove this source of peril to the safety of the inmates, a fire-proof brick building, about twenty-two feet long, fourteen feet wide and one story in height, has been erected in a place easily accessible, but sufficiently distant from the hospital building. Here the easily inflammable substances will hereafter be stored. The building has the aspect of a small cottage, and is an ornament rather than a detriment to the appearance of the grounds.

After the homestead of the late Samuel Day was pur-

## 10 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

chased, in 1876, the barn which stood upon it was taken down and re-erected near the hospital barn. It was eighty feet in length by forty in width. At that time it was larger than was required for farming purposes, and it has been used, to a very considerable extent, hitherto, as a store-house. But, since that time, land to the extent of about one hundred acres has been added, by purchase, to the farm, and the agricultural department of the establishment consequently and perhaps proportionally enlarged. Not only is it all needed, but prospectively, and in the near future, still further room. That room we decided to furnish immediately. In May the barn was raised, the necessary excavation for a cellar beneath it made, an extension of forty feet added to its westerly end, and the whole placed upon a substantial wall. On the north side and the two ends this wall is of split stone laid in cemented mortar. On the south side, where the surface of the land is on a level with the bottom of the cellar, it is of brick, with alternate wide, open spaces which are to be closed with doors suspended upon rollers. This cellar, like the building above it, is one hundred and twenty feet in length by forty in width, and is probably not exceeded in dimensions by any similar one in the western part of the State. It will be of great convenience and utility in the prosecution of the agricultural work.

Connected with this barn at its westerly end, and forming with it an elbow, a new wooden building has been erected for a poultry-house. It is forty feet long and twenty-five wide, with a height, in front, of twenty-one feet, and in the rear of fifteen feet, and a roof with but one slope. It has separate rooms for fowls and turkeys, and a chamber for the storage of their food or for other purposes. The old poultry-house is in the lumber-house. It is inconvenient, and the space occupied by it is much needed for the storage of lumber.

An extension of the cart-shed has been made by the erection of a one-story building forty feet in length by eighteen in width. The vehicles for farming purposes have become so numerous that this was much needed.

In the spring of 1883, as mentioned in our last year's report, work was begun upon a building intended, the cellar

for vegetables, the first story for a store-room, and the higher stories for shops and such other purposes as may be found convenient; but that work was necessarily suspended for the purpose of rebuilding a section of the main sewer of the hospital. The cellar was excavated and about three-fourths of the foundation and cellar wall; made of split granite, laid in cemented mortar, was completed last year. The work was resumed in the latter part of May of the current year, and has been satisfactorily prosecuted to the present time.

The main building is ninety-six feet in length by thirty-three feet in width, and three stories in height. Near the extremities of its southerly front project two wings, each about twenty-two feet square, which rise to the same height as the main edifice. The whole structure consequently forms three sides of a parallelogram. It is of brick, with brown-stone water-table, door and window caps and window sills. The roof is completed, and the cellar and the first floor so far advanced that they are now in use. The building is very thoroughly constructed, none of the work having been done upon contract. It is one of the best specimens of masonry to be seen in Northampton. William F. Pratt & Son were the architects. The brick-work was done by Michael Keating and his employees; the carpentry under the direction of Waldy Tetro, and the stone-masonry of the cellar walls by Curtis Braman.

Various minor improvements have been made, especially in the grading of the farm roads and the grounds in the rear of the hospital buildings.

The *income* of the hospital for the board of patients is always different, in any given official year, from the actual *earnings* by the boarding of its patients, because the bills for board during the last quarter of the year are not collected, and not due until the year has expired.

The *earnings* of the year covered by this report were as follows : —

For State patients,	.	.	.	.	.	\$26,328 24
town patients,	.	.	.	.	.	42,695 44
private patients,	.	.	.	.	.	15,406 54
Total,	.	.	.	.	.	\$84,430 22

## 12 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

The report of the Treasurer has been received and examined by the auditing committee. It will, as usual, be forwarded to you in connection with this. From the balances of the accounts it appears that, at the close of the fiscal year, Sept. 30, 1884, there were : —

The reserve fund, . . . . .	\$10,000 00
And cash assets available for future use, . . . . .	23,674 44
<hr/>	
Total, . . . . .	\$33,674 44
And liabilities (bills payable), . . . . .	8,672 41
<hr/>	
Balance in favor of the hospital, . . . . .	\$25,002 03

In addition to these still available cash assets, the hospital has on hand the representatives of cash, in a quantity of *purchased* provisions and supplies, the estimated value of which is \$15,445.23. It also has all the products of the farm which have not already been consumed.

The administrative officers of the institution are the same as at the close of the next preceding year, and but two changes have been made in the corps of subordinate officers; George B. Walker has taken the place of Charles Egen as baker, and Ida D. Hyde has succeeded Minnie J. Howes as laundress.

The condition of the hospital is satisfactory, and its facilities for easy and effective operation are greater than at any former time.

A. C. DEANE.  
HENRY W. TAFT.  
LYMAN D. JAMES.  
C. C. MERRITT.  
S. M. SMITH.  
S. A. WOODWORTH.  
S. M. BUTLER.

NORTHAMPTON, Oct. 9, 1884.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL  
SEPT. 30, 1884.

---

Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant superintendent and physician, . . . . .	" 1,500 00
First assistant physician, . . . . .	" 900 00
Second assistant physician, . . . . .	" 600 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk-hire and paid to a clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 600 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month 30 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 25 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 14 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Baker, . . . . .	" 35 00
Steward, . . . . .	" 54 17
Assistant steward, . . . . .	" 35 00
Attendants (male) (4), . . . . .	" 30 00
Attendants (male) (2), . . . . .	" 28 00
Attendants (male) (1), . . . . .	" 25 00
Attendants (male) (3), . . . . .	" 23 00
Attendants (male) (3), . . . . .	" 21 00
Attendants (female) (9), . . . . .	" 18 00
Attendants (female) (3), . . . . .	" 16 00
Attendants (female) (2), . . . . .	" 15 00
Attendants (female) (1), . . . . .	" 14 00
Night-watch (female), . . . . .	" 18 00
Housework, centre (female) (2), . . . . .	" 15 00
Cook (female), . . . . .	" 16 00
Assistant cook (male), . . . . .	" 18 00
Assistant cooks (female) (2), . . . . .	" 15 00
Assistant cooks (female) (1), . . . . .	" 14 00

# 14 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

Farmers' dining-room (female), . . . . .	per month	\$15 00
Housework, rear building (female), . . . . .	"	8 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day	2 75
Carpenter, . . . . .	"	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month	50 00
Assistant engineer, . . . . .	"	32 00
Night engineer, and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	28 00
• Farm hands (4), . . . . .	"	28 00
Farm hands (2), . . . . .	"	25 00
Farm hand (1), . . . . .	"	23 00

In the warm season we generally hire some farm hands by the day. This year we have four, at \$1.50 per day, without board. They work mostly on improvements of the farm.

## INVENTORY OF STOCK AND SUPPLIES.

ON HAND SEPT. 30, 1884.

Live-stock on the farm, . . . . .	\$5,902 00
Produce of the farm on hand, . . . . .	7,710 25
Carriages and agricultural implements, . . . . .	3,715 00
Machinery and mechanical fixtures, . . . . .	8,840 00
Beds and bedding in inmates' department, . . . . .	12,530 00
Other furniture in inmates' department, . . . . .	4,850 00
Personal property of State in Superintendent's department,*	9,125 00
Ready-made clothing, . . . . .	2,164 63
Dry goods, . . . . .	3,668 81
Provisions and groceries, . . . . .	2,873 35
Drugs and medicines, . . . . .	575 00
Fuel, . . . . .	5,823 44
Library, . . . . .	1,000 00
Paints and oils, . . . . .	350 00
Total, . . . . .	\$69,117 48

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other apartments.



## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

An appraisal of the property, both real and personal, of the hospital, a general account of the receipts and the disbursements of money in the course of the fiscal year 1883-84, and an exposition of the financial condition of the institution on the 30th of September, 1884, are contained in the following statement : —

## ASSETS.

Three hundred and forty acres of land, . . . . .	\$43,000 00
Hospital building, . . . . .	250,000 00
Farm house, \$2,000; brick house, \$2,000, . . . . .	4,000 00
Three dwellings (H. Day lot), . . . . .	1,000 00
Storehouse and shops, . . . . .	12,000 00
Two barns, . . . . .	5,500 00
Horse stable, . . . . .	2,000 00
Scullery and wood-house, . . . . .	700 00
Lumber house, . . . . .	1,200 00
Pump house, . . . . .	1,000 00
Cart shed, . . . . .	500 00
Coal house, . . . . .	400 00
Piggery, . . . . .	200 00
Fire-proof for oils and paints, . . . . .	500 00
Two ice houses, . . . . .	600 00
	<hr/>
	\$322,600 00

## PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' report, . . . . .	\$69,117 48
Reserve fund, . . . . .	10,000 00

## RECEIPTS.

Cash on hand Sept. 30, 1883, . . . . .	\$5,566 49
Received from the State treasurer, . . . . .	27,030 44
from towns, . . . . .	46,552 51
from individuals, . . . . .	15,689 46
from sales, . . . . .	2,355 67
from interest, . . . . .	775 64
	<hr/>
	\$97,970 21

## PAYMENTS.

1st. Salaries and labor, . . . . .		\$37,922 08
2d. Provisions and supplies, viz.:—		
Meats of all kinds, . . . . .	\$6,842 04	
Fish of all kinds, . . . . .	1,481 32	
Fruit and vegetables, . . . . .	2,401 29	
Flour, . . . . .	3,823 25	
Grain and meal for table, . . . . .	775 64	
Grain and meal for stock, . . . . .	1,570 03	
Tea, coffee and chocolate, . . . . .	904 39	
Sugar and molasses, . . . . .	2,111 76	
Butter and cheese, . . . . .	4,786 06	
Salt and other groceries, . . . . .	2,719 45	
All other provisions, . . . . .	124 02	
		<hr/>
		27,539 25
3d. Clothing, . . . . .		3,689 01
4th. Fuel and lights, . . . . .		6,893 01
5th. Medicines and medical supplies, . . . . .		1,178 88
6th. Furniture, beds and bedding, . . . . .		3,349 42
7th. Transportation and travelling expenses, . . . . .		389 27
8th. Ordinary construction and repairs, . . . . .		1,551 44
9th. Extraordinary construction and repairs, . . . . .		15,791 07
10th. Miscellaneous expenses, including—		
1. Farm stock, . . . . .	\$1,701 10	
2. Farm supplies, . . . . .	3,366 74	
3. Water, . . . . .	750 00	
4. Minor expenses, . . . . .	875 26	
5. Contingencies, . . . . .	1,208 59	
		<hr/>
		7,901 69
Total expenditures, . . . . .		<hr/>
		\$96,204 62

## LIABILITIES.

Salaries and wages due Oct. 1, 1884, . . . . .	\$3,807 47
Miscellaneous bills due, . . . . .	4,864 94
	<hr/>
	\$8,672 41

Due the institution for board, Oct. 1, 1884,—

from State, . . . . .	\$6,495 39
towns, . . . . .	11,345 50
individuals, . . . . .	3,967 96
interest, . . . . .	100 00
Due from Treasurer, Sept. 30, 1884, . . . . .	1,765 59
	<hr/>
	\$23,674 44

# 18 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

## SUMMARY.

Total receipts, . . . . .	\$97,970 21
Total payments, . . . . .	96,204 82
	<hr/>
Cash on hand Sept. 30, 1884, . . . . .	\$1,765 59
Total liabilities, . . . . .	\$8,672 41
Total debts due the institution, . . . . .	23,674 44
Total expenditures, including new buildings, . . . . .	96,204 62
Dividing this sum by 463.05, the average number of patients, we have the average expenditure per patient, . . . . .	\$207.7629
And the average weekly expenditure, per patient, . . . . .	3.984
Deducting from the total expenditures, . . . . .	\$96,204 62
The extraordinary expenses, . . . . .	15,791 07
	<hr/>
We have the current expenses, . . . . .	\$80,413 55
Dividing \$80,413.55 by 463.05, the average number of patients, we have the average expenditure per patient, . . . . .	\$173 66
Making the average weekly expenditure per patient, . . . . .	3 33
Adding to the current cash expenditure, . . . . .	\$80,413 55
The decrease of personal assets, . . . . .	542 26
	<hr/>
We have the apparent <i>necessary</i> cost for the year, . . . . .	\$80,955 71
Dividing \$80,955.71 by 463.05, the average number of patients, we have, as the annual cost of each patient, . . . . .	\$174 83
Making the average weekly cost of each patient, . . . . .	3.353

PLINY EARLE, *Treasurer.*

NORTHAMPTON, Oct. 9, 1884.

We have audited the Treasurer's accounts and found a satisfactory voucher for every entry.

A. C. DEANE.  
L. D. JAMES.

NORTHAMPTON, Oct. 9, 1884.

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

Of all the leading or prominent events in the history, for the last official year, of the public charity confided by the Commonwealth to your general direction and oversight, you are already informed. It now becomes my duty to lay before you an exposition of the results of the operations of the institution during that period. In the performance of that duty, I begin with the usual table, which contains, in statistical form, the general facts recorded in the medical department of the institution.

### 1. General Statistics, 1883-84.

	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1883, . . . . .	230	239	469
Admitted within the year, . . . . .	61	75	136
Whole number of cases within the year, . . . . .	291	314	605
Discharged within the year, . . . . .	62	80	142
Viz.: as recovered, . . . . .	9	16	25
much improved, . . . . .	6	11	17
improved, . . . . .	16	19	35
unimproved, . . . . .	16	20	36
not insane, . . . . .	8	1	4
Deaths, . . . . .	12	13	25
Patients remaining Sept. 30, 1884, . . . . .	229	234	463
Viz.: supported as State patients, . . . . .	83	71	154
town patients, . . . . .	114	138	252
private patients, . . . . .	32	25	57
Number of different persons within the year, . . . . .	286	308	594
admitted, . . . . .	59	72	131
recovered, . . . . .	9	16	25
Daily average number of patients, . . . . .	227.15	235.90	463.05

As shown by this table, the whole number of admissions within the year was, of men 61 and of women 75, making a total of 136. But these admissions do not, all of them, represent different persons. Two of the men and 3 of the women, a total of 5, were admitted twice each. It consequently follows that the number of persons admitted was only 131, of whom 59 were men and 72 women. This large predominance of females is unusual.

The whole number of *patients* or *cases* in the hospital in the course of the year was, of men 291 and of women 314, a total of 605. Included in this number are the 230 men and 239 women, a total of 469, who were present at the beginning of the year. Of these, however, no less than 6, of whom 3 were men and 3 women, were afterwards discharged, but re-admitted before the close of the year, and appear in the number of admissions. As *patients*, therefore, they were counted twice. As *persons* they should be counted but once. In this way the number of *persons* is shown to be less by 6 than the number of *patients*. This reduction (6), added to the reduction (5) caused by the admissions of 5 persons twice each, makes a total of 11. Consequently, the whole number of *persons* in the course of the year was (605-11) 594, of whom 286 were men and 308 women.

Neither of the 5 persons who were admitted twice each was discharged as recovered on the first of those admissions. Of the 6 who were in the house at the commencement of the year, but who were subsequently discharged and re-admitted, 1 of the men was discharged recovered.

Of the 125 persons admitted, 24 men and 17 women, making a total of 41, or very nearly one-third of the whole, have been in the hospital as patients more than once each. Eighteen men and 12 women, a total of 30, have been admitted twice each; 4 men and 2 women, three times each; 1 woman, four times; 1 man, five times; 1 woman, six times; 1 man, eleven times; and 1 woman, fourteen times. The two patients last mentioned are brother and sister.

Of the 30 persons who have been here twice each, 4 men and 4 women, a total of 8, were discharged as recovered on their first admissions; 4 men were discharged as much im-

proved; 5 men and 2 women as improved; 1 woman as relieved; and 5 men and 5 women as unimproved.

Of the 6 who have been here three times each, no one of the 4 men had been discharged as recovered on either admission. Two of them had been discharged improved both times, and 2 as improved the first time and unimproved the second time. Each of the 2 women was discharged as recovered on her first admission, and as improved on the second.

The woman who has been here four times, was discharged as improved twice, and recovered once.

The man who has been here five times, was discharged as recovered twice, and improved twice.

The woman who has been here six times, was discharged as unimproved five times.

The man who has been here eleven times, has been discharged as recovered four times, much improved once, and improved five times.

The woman who has been here fourteen times, has been discharged as recovered ten times, and improved three times.

The number of *patients* or *cases* admitted, was not so large by 11 as it was in the official year 1882-83. The same is true of the number of *persons* admitted. This diminution is regarded merely as incidental, and not as an indication of any permanent or progressive decrease of the amount of insanity in the western section of the State.

The largest number of patients in the hospital on any day in the course of the year, was 474, on the 26th of March; and the least number on any day was 455, on each of nine successive days in the latter part of June.

The daily average number of patients in the house for the year, was less by 3 than in the next foregoing year.

#### STATUS OF PATIENTS.

As a rule, which, so far as I am informed, has no exceptions, the State institutions for the insane, in all the Northern and Middle States of this country, and all Western States lying north of the Ohio River, were intended for, and now receive, patients from all classes of the population. They were founded for the benefit of the people, without any dis-

tion, or discrimination, or exception whatsoever. Each Commonwealth which has founded a hospital or an asylum of the kind, has based it upon the broad principle of the promotion of the common weal. There are differences, however, in the different States, in the method of application, or the carrying out of this fundamental law. When the hospital at Columbus, Ohio, was established, the legislature of that State, with a comprehensiveness of view and a breadth of liberality thitherto unprecedented, ordained that the whole cost of the operations of the institution should be paid from the treasury of the Commonwealth. As the law has not been changed in this respect, it consequently follows that any citizen of Ohio, of what rank soever in either the civil or the social scale of society, may claim and receive the benefit of treatment, without expense to himself, in either of the four institutions for the insane now belonging to that State. Payment is permitted, if the patient or his friends or sponsors so prefer, but it is not demanded.

Of the other States in the sections mentioned, a very few have followed the precedent thus introduced by Ohio. In most of them, however, direct payment to the institution is required from persons who have pecuniary ability to meet the expense; while from those who are dependent upon public beneficence, payment in each instance is received from the treasury of the organic body, whether State, county, or town, which, under the law of each State, respectively, is responsible for the support of the patient. In quite a number of the States those organizations are the State and the counties; but in Massachusetts they are the State and the cities and towns. Hence the inmates of the institutions in this Commonwealth are of three classes: State patients, town patients, and private patients.

The cost of the support of the 136 patients received within the year, was charged, at the time of admission, as follows; namely, to the State in 34 instances, to cities or towns in 80, and to individuals, or some representative of private funds, in 22. In regard to cities and towns, there was no instance in which this responsibility for support was transferred to any other authority, either public or private; but in four instances in which the responsibility was originally thrown

upon the State, it was removed to cities and towns. One patient supported, at first, by private funds, was subsequently made a beneficiary of the Commonwealth.

The whole number of patients discharged in the course of the year, including those who died, was 142. Of these, 34 were supported by the State, 88 by cities and towns, and 20 by private property.

There were 463 patients remaining in the house at the end of the year. Of these, 154 derive their support from the Commonwealth; 252 are wards of cities and towns; and 57 are chargeable to their relatives, friends, guardians, or other representatives of private funds.

Chiefly, probably, in consequence of the modification of the laws of settlement, an important change, as has been mentioned and demonstrated in some previous annual reports, has been taking place in the relative proportion of the two dependent classes; while a very considerable reduction of numbers in the independent class, has resulted from a discontinuance of the practice of receiving patients who are non-residents of the State.

The following table shows the weekly average numbers in the hospital, of each of these classes, during the last two official years. Those numbers were derived from the totals of the numbers in the house on the evenings of the fifty-two Saturdays within the year:

	1882-83.			1883-84.		
	Males.	Females.	Total.	Males.	Females.	Total.
State patients, . .	87.34	74.28	161.62	83.37	71.73	155.10
Town patients, . .	118.98	128.65	247.63	113.88	137.35	251.23
Private patients, .	29.26	28.32	57.58	29.87	26.19	56.06

These figures demonstrate the continued diminution of the numbers and the relative proportion of patients chargeable to the Commonwealth, as well as a corresponding, though not identical increase of those who are supported by cities and towns.



The weekly average of the whole number of patients was 462.39.

### RECOVERIES.

The line of demarcation between sanity and insanity is so indefinite, and the opinions of men so often differ upon the question of the sanity or insanity of a given individual, that, for some years past, when writing these annual reports, I have hesitated positively to assert that any definite number of the patients who have been treated in the hospital have fully regained a condition of mental soundness. The same course will be pursued this year.

*Judging in accordance with our standard of mental health, and our opinions in regard to the extent to which, in individuals, that standard is modified by temperament, idiosyncrasy, education and habits*, twenty-five of the patients who have left the hospital in the course of the year just expired, had so far attained the natural condition of their mental faculties as to make it appear proper to adjudge them as recovered. Nine of them were men and sixteen women. Twenty-one of them had never before been treated in the hospital. Two men and one woman were here on their second admission. The woman, and one of the men, had been discharged as recovered on their first admission. The other man had been discharged as much improved. After he left the hospital he fully recovered, and successfully pursued his usual business for more than three years.

One woman was here on her fourteenth admission. She had previously been discharged as recovered, ten times, and improved three times. She has now contributed eleven recoveries to the statistics of insanity, and, judging the future by the past, that number will be increased in coming years. The total record of the recoveries of the four persons, is fifteen.

No one of the twenty-five patients was discharged recovered more than once within the year, and, consequently, the number of *patients* and the number of *persons* discharged recovered, is the same.

It is a fact well known to those who are conversant with insanity, and which has so often been mentioned in the an-

nual reports of the institutions for the insane that it ought to be known by the people in general, that mental disorders are vastly more curable in their early stages than at later periods. The prospect of recovery diminishes rapidly, becomes very small before the lapse of the first year, and is an almost infinitesimal quantity at the end of the second year. Such has been the result of the experience at the hospitals, and such has been the teaching from them throughout the course of the last fifty years. For the purpose of exhibiting the effect — or, rather, the non-effect — of that instruction upon the people at large, a statement of the duration of the insanity of the patients who were received within the official year just expired is here introduced.

Of the one hundred and thirty-three patients admitted, only forty had been insane less than six months. Seventeen had each been insane during a period of from six to twelve months; thirteen from one to two years each; seventeen from two to five years each; fifteen from five to ten years each; and five over twenty years each. There were fifteen cases in which the time of the origin of the mental disorder was reported as unknown. From this exposition it will be evident, not only that the task imposed upon the medical officers of the institution is peculiarly discouraging, but that the percentage of recoveries cannot be expected to be otherwise than small. We have no miraculous method for the removal of a confirmed disease of the brain, and the restoration of the permanently insane man to sanity.

The question of curability and incurability, as reported by the superintendents of the institutions for the insane, is to some extent affected by an agent other than that of the duration of the disease before the patient is subjected to curative treatment in the hospital. I allude to the *age* of the patient. As a rule, persons in early and middle life are more likely to recover than those who are more advanced in years. This, of course, might be expected, inasmuch as they retain to a greater degree their original vigor of constitution, and are consequently more susceptible to the influence of remedial agents. But the practice is apparently increasing of bringing to the hospital persons of the latter class. Among the

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patients received in the course of the last year, there was one who was over eighty years of age, and no less than seven whose ages ranged between seventy and eighty years, three of them being seventy-five or more. It cannot be expected, unless in very exceptional cases, that persons so far advanced will ever recover their mental soundness. Most frequently the unsoundness is the consequence of old age, and the beginning of the breaking down of the constitution.

Aside from the incurability of these patients, there is another question which has an important bearing upon the propriety of sending them to the hospitals. They have so long been accustomed to the independence of home, and to all their homelike comforts and associations, that the removal of them to a public institution, where that independence is measurably lost, and where they are subjected to new surroundings, as well as to a certain degree of discipline to which they have never been accustomed, but which is absolutely necessary to the best welfare of the inmates, has a detrimental rather than a beneficial effect. They cannot accustom themselves to this new mode of life. It is strange and uncongenial. Under these circumstances, the little vigor of constitution which yet remains to them begins to fail, and their lives are brought to an end, not infrequently, much sooner than they probably would have been had not the life of home been exchanged for life in a public institution.

Of the 25 patients who recovered within the year, 6 were supported by the State, 14 by cities and towns, and 5 by private funds.

### DEATHS.

As will be shown upon a subsequent page, one of the characteristics of the year just closed is the comparatively small mortality among the patients. The number of deaths was only 25, 12 of which were of men, and 13 of women. Of the diseases leading to these results, the largest number, as might reasonably be expected, were in that class the origin or seat of which is in the brain and the nerves; but, as usual, the largest number of patients removed by any one disease, is found under the head of phthisis, or consumption. Of these there were 6, 2 of whom were men,

and 4 women. Of those who died from natural causes, the next leading number, 3, were the result of paralysis. Two each died from pneumonia and organic diseases of the brain; and one each from epilepsy, paresis, progressive paralysis, exhaustion of acute mania, exhaustion of chronic mania, disease of the heart, pleurisy, inflammation of the liver, and old age. To these we are unfortunately obliged to append three from an unnatural cause, suicide.

It is a well-known fact that a propensity to self-destruction not unfrequently becomes epidemic. It is no less true that, in hospitals for the insane, at least, actual suicides, even when not the result of an epidemic tendency thereto, are very likely to occur so near to one another, in point of time, that, in the review of the history of a series of years, they appear to be arranged in groups, with sometimes widely intervening spaces. An illustration of this is found in the experience of this hospital. From the 27th of January, 1872, to the 5th of January, 1880, a period of only twenty-two days less than eight years, there was no death here of which there could be even a suspicion that it was the result of the direct intention and act of the person who died. From and including the year last mentioned, there was a period of three years, no one of which was free from these fatal occurrences. This was followed by an interval of one year of exemption, to be succeeded by the experience of the year just ended. In two of the cases occurring within the last year, no propensity to suicide had been manifested or suspected.

The history of the hospital, since its opening, now extends over a period of twenty-six years. According to the records there have been 21 suicides, 15 of them by men and 6 by women. Eleven of them occurred within the first thirteen years of that period, and 10 within the last thirteen. Hence, the distribution of them between the half-periods, is, in point of numbers, nearly equal; but in the relative proportion between those numbers and the number of patients under treatment, it is quite unequal. The daily average number of patients during the first thirteen years was only 353.5; but during the last thirteen it was 456.47. From a calculation based upon these numbers, we derive the

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fact that the relative proportion of suicides to the average number in the house during the last thirteen years, was to the same proportion during the first thirteen, as 59 to 100.

In several preceding annual reports it has been shown that, in each of those years, the proportion of deaths among the men was larger than that of the women. It has likewise been shown that, in the whole period of the existence of the hospital, the relative mortality among the men has very considerably exceeded that among the women. In this respect we have now had an exceptional year. Of the 286 men who were under treatment in the course of the year, 12, or a percentage of 4.19, died. Of the 308 women, 13, or the larger percentage of 4.22, died. Although the proportion is larger among the women, yet the difference is very small. Calculated upon the daily average number of the two sexes in the house, the deaths of men were equal to 5.28 per cent., and those of women 5.51 per cent. By the latter method of calculation the difference in favor of men is larger than by the former.

Of the 25 patients who died, 5 were beneficiaries of the State, and 17 of cities and towns, while 3 derived their support from private sources.

The following table contains a statistical record of the mortality in the hospital during the whole period of its existence:—

*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1884.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Average No. of Pa- tients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Total.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	18	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.14
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39

The very low rate of mortality for the year is made evident by the figures in this table. The ratio of deaths, as compared with the whole number of patients under treatment, is smaller than in either one of twenty-three years, and is in excess of that of only two years. The similar ratio, as calculated on the daily average number of patients in the house — the more correct method — is larger than in four of the preceding years, and smaller than in twenty-one.

The tables below are introduced, as they have been in the last two foregoing years, for the purpose of showing the percentage of deaths during the whole period, and the two half-periods of the hospital's existence, as well as the relative mortality of the last year as compared therewith.

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Calculated upon the whole number of patients under treatment, the mean or average mortality was, —

For the whole period of twenty-five years, . . .	5.75 per cent.
For the first thirteen years, . . . . .	6.49 "
For the last thirteen years, . . . . .	5.13 "
While for the last year it was only . . . . .	4.13 "

Calculated on the daily average number in the hospital, it was, —

For the whole period of twenty-five years, . . .	7.72 per cent.
For the first thirteen years, . . . . .	9.05 "
For the last thirteen years, . . . . .	6.69 "
While for the last year it was only . . . . .	5.39 "

It will be perceived that, calculated in either of the two ways, the mortality of the year just ended was very materially lower than that of either of the periods for which the percentage is shown. Calculated by the latter method, it is not so large by 67 per cent. as in the first thirteen years, and by 24 per cent. in the last thirteen. The relative proportion of deaths of the first thirteen years exceeded that of the last thirteen, by 35 per cent. It may, perhaps, not be considered either pretentious or presumptuous, to claim that the large reduction of the mortality of the latter period is chiefly attributable to improvements in the hospital and in the details of the treatment of its inmates; and I venture to assert the belief that you, the Trustees of the institution, and all to whom the inner history of the establishment has been familiar, will not differ from me in this opinion.

### WORSHIP AND ENTERTAINMENT.

As heretofore, and from the first opening of the hospital for the reception of patients, religious exercises have been conducted in the chapel on the afternoons of all the Sabbaths of the year, by ministers of most of the denominational churches of Northampton and its vicinity, or, occasionally by those from a distance who have been temporarily in the neighborhood. The average attendance of the household at these assemblies, during the year, has been not far from two

hundred and seventy. The largest number on any day was two hundred and ninety-seven.

As a firm believer in the utility, not of these gatherings alone, but of similar ones on the evenings of secular days, for the instruction, entertainment or amusement of the inmates, I have not hesitated to pursue the course of former years, in thus ministering to what is believed to be the best welfare of those who are committed to the care of the institution.

The general character of these exercises, and the frequency of each during the official year, may be ascertained from the following list : —

#### EXERCISES IN THE CHAPEL.

##### 1. ON THE SABBATH, —

Divine worship, . . . . . 52 days.

##### 2. ON SECULAR EVENINGS, —

###### (a) *Reading and Recitations, opened and closed with music :*

The Bible, . . . . .	14	"
The Bible and selections of prose, . . . . .	3	"
The Bible and selections of poetry, . . . . .	35	"
The Bible and recitations of poetry, . . . . .	2	"
Miscellaneous selections of prose, . . . . .	74	"
Miscellaneous selections of poetry, . . . . .	24	"
Miscellaneous selections of prose and poetry, . . . . .	87	"
Recitations of poetry, . . . . .	8	"

###### (b) *Lectures : —*

Reminiscences of a soldier in the late war, . . . . .	10	"
Pneumatics, using the air-pump, . . . . .	2	"
Elasticity, using elastic and non-elastic balls, . . . . .	1	"
Missionary work in India, . . . . .	1	"
Twenty years in the hospital, . . . . .	1	"

###### (c) *Other Entertainments : —*

Esmeralda, . . . . .	1	"
Pictures shown with the stereopticon, . . . . .	7	"
Concert, . . . . .	1	"
Concert and readings, . . . . .	1	"
Ventriloquism, . . . . .	1	"
Sleight of hand exhibition, . . . . .	1	"

###### (d) *Social Assemblies : —*

Quadrille parties, . . . . .	19	"
No assembly, . . . . .	76	"

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Total, . . . . . 366 days.



There are two visiting days in each week at the hospital, and as they impose a somewhat heavy burthen of work upon its officers and the employees having charge of the patients, the evening exercises were omitted upon those days during the three summer months. It has been customary, also, for several years, to omit them on the evenings of the monthly meetings of the Trustees, and of the visits of the Governor, the Legislative committee and the State Board of Charity.

It will be perceived that the number of days upon which the patients assembled was two hundred and ninety. The list of exercises contains the usual variety, and reveals the fact that, aside from music, reading is the most predominant. I am convinced that, where these gatherings are so frequent as at this hospital, it is best that it should be so. No other inexpensive exercise requires so little labor in its preparation, or furnishes so much entertainment for a given amount of that labor. At some institutions the exhibition of pictures by the stereopticon is made the leading and most frequent resource in this department of the so-called moral treatment of its patients. In our experience less satisfaction is given by a continued series of these exhibitions than by a similar series of readings. The darkened room required by them is a serious objection. The pleasure at first derived from them soon palls, and whenever we have had a series of them in successive or nearly successive evenings, we have had from some of the patients the direct expression of a desire for a return to the usual course of readings. They are an excellent occasional entertainment, but when they become continual, or nearly so, they subject themselves to the criticism of the old proverb, "Too much of a good thing is good for nothing."

Not the least interesting or satisfactory of all the entertainments of the year were the "Reminiscences of a Soldier in the late War," given in a series of ten lectures. The lecturer was himself the "soldier," and, during the period of several weeks, in the course of which they were delivered, a patient in the hospital. He is a ready and fluent speaker, and both understands and practices the method of claiming the attention of an audience by a judicious intermingling of

the pathetic and the humorous with the narrative of his subject.

The lecture on "Missionary Work in India" was also given by a patient, who spoke out of his own experience and observation.

#### FARM.

If regarded as a whole, the season of seed-time and harvest of the year 1884 has been a very favorable one upon the hospital premises, and the aggregate of crops has been larger and more valuable than in any preceding year in the history of the institution. And yet that season was unpromising in its earlier periods. Planting was necessarily postponed to a later date than usual, and the severe frost of the night of the 29th-30th of May killed the early potatoes, the beans, the tomatoes, the melons and the broom-corn, so that it was necessary to replant them. And it is worthy of remark that the products of these replantings were both abundant in quantity and excellent in quality. In no previous year have we had finer tomatoes, and the potatoes were among the largest and best of all that were produced.

The same frost apparently retarded the growth and diminished the quantity of grass, so that, although other circumstances seemed even more favorable than in 1883, yet the quantity of hay from the first cutting was less by about thirty-nine tons than in that year. This deficiency, however, was in part recompensed by an excess of sixteen tons in the after-growth. The whole crop of rowen was thirty-eight tons, the same as that of 1881, and larger than that of any other year.

Upon this farm this is the "bearing year" for apples. The late frost injured the fruit in some places in the neighborhood, and for a time it appeared as if, for this, or some other reason, the crop here would be a failure. The product, indeed, of the largest orchard was much less than it has been in some years. And yet, in this direction, the promise of harvest has not failed, but has been abundantly fulfilled in a yield of more than eleven hundred barrels of apples suitable for domestic purposes, besides a sufficient quantity of the poorer ones to make, by estimation, a hundred barrels of

cider. Fruit larger in size or finer in quality is rarely seen. Many limbs have been broken by the weight of it from the trees, and many more would have been had they not been supported.

## LIST OF PRODUCTS.

Hay, (first growth of home farm), 106½ tons, at \$17, . . .	\$1,806 25
Hay (south lot), 18½ tons, at \$17, . . .	318 75
Hay (Clarke orchard), 11½ tons, at \$17, . . .	195 50
Hay (after-growth of whole farm), 38¼ tons, at \$17, . . .	650 25
Corn fodder, dry, 20 tons, . . .	160 00
Oat fodder, 13 tons, . . .	169 00
Corn, 400 bushels, . . .	260 00
Potatoes, 3,309 bushels, . . .	1,654 50
Broom-seed, 45 bushels, . . .	18 00
Broom-brush, 800 pounds, . . .	40 00
Carrots, 115 bushels, . . .	40 25
Beets, 1,515 bushels, . . .	606 00
Onions, 90 bushels, . . .	45 00
Turnips, 350 bushels, . . .	140 00
Parsnips, 60 bushels, . . .	36 00
Beans (Lima), in shell, 93½ bushels, . . .	140 25
Beans (common), in shell, 20 bushels, . . .	20 00
Beans (string), 27 bushels, . . .	59 87
Beans (Lima), dry, 4 bushels, . . .	16 00
Pease (green), in pod, 82 bushels, . . .	91 00
Sweet corn (green), in ear, 211½ bushels, . . .	211 50
Tomatoes, 149 bushels, . . .	155 50
Lettuce, 107 bushels, . . .	107 00
Cucumbers, 124½ bushels, . . .	124 50
Squashes (summer), 57 bushels, . . .	57 00
Squashes (winter), 5 tons, . . .	100 00
Melons, 2,260 pounds, . . .	22 60
Asparagus, 18½ bushels, . . .	55 50
Pie-plant, 46 bushels, . . .	66 25
Beet greens, 3 bushels, . . .	3 00
Spinach, 3 bushels, . . .	3 00
Cabbages, 3,600 heads, . . .	108 00
Currants, 17½ bushels, . . .	40 00
Apples, 1,153 barrels, . . .	1,429 50
Pears, 18 bushels, . . .	36 00
Quinces, 1 bushel, . . .	4 00
Veal, raised here, 749 pounds, . . .	95 31
Pork, 10,192 pounds, . . .	813 19
Pigs, sold, 41, . . .	109 50
Pigs, roasting, 4, . . .	8 00
Turkeys, 171½ pounds, . . .	41 91

Chickens, 138 pounds, . . . . .	\$28 42
Heads and plucks, . . . . .	15 50
Eggs, 225 dozen, . . . . .	58 39
Milk (grass-fed), 32,204 quarts, . . . . .	1,932 24
Cider, 100 barrels, . . . . .	200 00
Calfskins, 7, . . . . .	8 75
Young calves, sold, 18, . . . . .	43 50
Wood, 25 cords, . . . . .	62 50
Lumber, 3,000 feet, . . . . .	30 00
Fence posts, 465, . . . . .	93 00
Corn husks, 1 ton, . . . . .	14 00
	<hr/>
	\$12,544 18

In regard to a part of the products, the quantities in the above list are estimates rather than the results of measurement; but, up to the time of the present writing—two weeks after the list was made—the gathered quantities have exceeded those estimates.

The total valuation, as seen in the table, is larger by \$1,111.16 than that of 1883, and larger by \$2,573.97 than that of 1882. It is also in excess, by \$967.90, of that of 1881, which was the largest product of any foregoing year since the foundation of the hospital.

In the annual report for every year since 1864, the quantity of milk to which a valuation was given in the list of agricultural products, was but one-fourth of the actual quantity produced, because it was estimated that not less than three-fourths was the product of the hay, grain and roots to which a full valuation had already been given. The pasturage upon the farm is now more than twice as great as it was in 1865, and consequently the proportion of grass-fed milk has been increased. The quantity valued in the list has therefore been changed from one-fourth to one-third of all that is produced. The whole production for the year was 24,153 gallons, averaging 66 gallons per day.

At the end of the official year the farm-stock consisted of 9 horses, 8 working oxen, 3 fat oxen, 2 bulls, 31 cows, 5 fat cows, 5 heifers, 2 calves, 136 swine, and the usual quantity of poultry.

## LETTER BOXES.

By an act of the legislature of 1874 the institutions for the insane in the State of Massachusetts were required to place locked letter-boxes in their wards, in which the patients might deposit letters addressed to the Superintendent or to the Board of State Charities. The Superintendent was to furnish the patients with the materials for writing, and the boxes were to be opened and the letters distributed monthly, by the State Board. The members of the legislature were stimulated to the enactment of this law by the assertion that a very considerable proportion of the patients were improperly and unjustly detained in the hospitals, and that the only reason that they were not set at liberty was the impossibility, on their part, to communicate, by letter, with their relatives, friends or other authorities. It was further asserted that, should a law of the kind be enacted, the consequences would be not only the regaining of liberty by many persons improperly held in custody, but the acquisition, by their removal, of so much room for the accommodation of patients in the future, that the necessity for the construction of another hospital would be very considerably postponed.

In obedience to the requisitions of this law, twenty letter-boxes, some one of which is accessible to every patient in the house, have now been in our wards more than ten years; but the prophecies in regard to them have not here been fulfilled. No one of our wards has been vacated as a consequence, but all of them have, at all times, been overflowing full. No scores or dozens of our patients have been restored to liberty through this medium of action. Furthermore, there has not been a single instance of a patient so removed, and throughout the long period of a decade of years no letter has been placed in either of the boxes which has given cause or occasion for any member of the State Board, or any one of its agents, to say anything to the Superintendent in regard to the insanity of the person who wrote it, or of the propriety and justice of the detention of that person in the hospital. From my point of view these facts constitute an important comment not alone upon the

allegations of unjust detention by which the law was first brought into existence, but upon the thousand and one condemnations of the management of the hospitals for the insane which are heard among the people at large.

#### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1882-83, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board-bills of its patients, and the small sum of ten dollars each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last-mentioned source during the past year were only thirty dollars.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is the compensation fixed by statute law. One hundred and fifty-four, or more than one-third of the inmates, now belong to this class. During the past year the weekly average of them was 33.54 per cent. of the whole.

For town patients it has received, and now receives, from the treasuries of the towns respectively in which these patients have legal settlements, the same sum per week (\$3 25 each) as from the State treasury for State patients; but the towns clothe their patients, and remunerate the hospital for damages done by them. Two hundred and fifty-two, or more than one-half, of the inmates are now in this class. The weekly average of them for the year was 54 per cent. of the whole.

For private patients there is no uniform price. The

average pay from all who were here Sept. 30, 1884, was \$5.19 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 12 per cent., or not quite one-eighth of the whole.

The average weekly pay, per capita, charged by the hospital for all its patients—State, town and private—in the course of the year is \$3.496. Such are the pecuniary resources of the institution. We turn to the results of

#### THE FINANCE OF THE LAST NINETEEN YEARS.

In April, 1865, the hospital was freed from debt, and the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the first of June, 1867, it received a direct bonus from the State of \$5,000, in two appropriations, for specific purposes,—one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to about one hundred and fifty acres, together with four dwelling-houses. The total cost of this real estate was \$30,183. The State then has, in this way alone, been overpaid for its bonus, in the sum of \$25,183.

The amount paid by the hospital for repairs and improvements in the course of the nineteen years, from Sept. 30, 1865 to Sept. 30, 1884, is \$223,268.40.

The surplus of cash assets now on hand, including the reserve fund, is \$25,002.03, or \$24,699.99 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$15,445.23. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$12,945.23.

The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums the account of debit

of the Commonwealth to the hospital appears to be as follows : —

Excess of cost of land over direct bonus, . . . . .	\$25,183 00
Repairs and improvements, . . . . .	223,268 40
Excess of present cash assets, . . . . .	24,699 99
Increase of provisions and supplies, . . . . .	12,945 28
Increase of furniture, . . . . .	8,000 00
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Total, . . . . .	\$294,096 62

The necessary current repairs of the buildings may be estimated at \$3,000 annually. Deducting this sum for each of the nineteen years since Sept. 30, 1865, a total of \$57,000, there is a remainder of \$237,096.62. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely upon direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary, we have taken into account only the actual disbursements of money by the hospital in contributing to its own improvements. But aside from this, a large amount of work, in effecting those improvements, was performed by the teams of horses and cattle belonging to the institution and by the regular corps of its employees. Agreeably to all correct business principles, as well as to the custom at some similar institutions, the hospital should be credited with the amount of the value of this labor. But no credit has ever been given for it. Many thousands of dollars might, in this direction, be justly added to the sum above mentioned as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition, it may be interesting to know to what extent the tax-payers of the State have contributed to the institution. From a list, furnished by the State treasurer, of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection down to the present day, it has cost the people of the Commonwealth only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).



## ACKNOWLEDGMENTS.

The inmates of the hospitals would present their thanks to Miss C. E. Butterworth for a large quantity of religious newspapers, and to Miss Florence Austin for a collection of newspapers, pictures and many other New Year's presents to patients in the department for women.

We are also indebted to Dr. T. W. Meekins for the exhibitions of pictures with the stereopticon, and to Miss Longley, Mr. John Prince and Capt. David Hill for an entertainment consisting of vocal and instrumental music by the first two, and readings by the last.

All of the officers of the institution at the beginning of the official year are still upon duty; but of the subordinate officers, the baker, Charles Egen, and the laundress, Minnie J. Howes, have left, and their places have been filled by George B. Walker and Ida D. Hyde. It has been a very busy year with us, and all who, whether as officers or as employees, were here at its beginning and still continue at their posts, have lent a faithful hand in the performance of the duties assigned to them.

And here, as the curtain drops upon the stage of time, and the scene of another year passes from our view forever, I would once more acknowledge my recognition and appreciation of the ready counsel and the willing support which I have at all times received from the members of your Board.

PLINY EARLE.

NORTHAMPTON, Oct. 9, 1884.

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## APPENDIX.

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## 2.\* *Monthly Admissions, Discharges and Averages.*

MONTHS.	ADMISSIONS.			DISCHARGES (Including Deaths.)			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1883.</b>									
October, . . . . .	3	5	8	5	6	11	229.09	239.54	468.64
November, . . . . .	10	6	16	9	11	20	229.16	237.	466.16
December, . . . . .	9	6	15	7	4	11	229.55	233.64	463.19
<b>1884.</b>									
January, . . . . .	4	7	11	3	8	11	231.55	232.51	464.06
February, . . . . .	5	8	13	7	4	11	231.07	236.58	467.65
March, . . . . .	4	10	14	5	6	11	231.52	239.32	470.84
April, . . . . .	1	4	5	8	10	18	225.4	238.4	463.8
May, . . . . .	7	6	13	7	6	13	220.9	236.81	457.71
June, . . . . .	3	6	9	3	7	10	221.73	235.43	457.16
July, . . . . .	6	4	10	6	4	10	221.68	233.77	455.45
August, . . . . .	6	3	9	1	6	7	225.74	234.32	460.06
September, . . . . .	8	10	13	1	8	9	228.63	233.50	462.13
Total of cases, . . .	61	75	136	62	80	142	-	-	-
Total of persons, . .	59	72	131	62	78	140	-	-	-
Daily average for the year, . . . . .	-	-	-	-	-	-	227.15	235.90	†† 463.05

## 3. *Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	35	58	93	-	-	-
Second, . . . . .	17	12	29	4	4	8
Third, . . . . .	4	2	6	-	2	2
Fourth, . . . . .	-	1	1	-	1	1
Fifth, . . . . .	1	-	1	2	-	2
Sixth, . . . . .	-	1	1	-	-	-
Eleventh, . . . . .	1	-	1	4	-	4
Fourteenth, . . . . .	-	1	1	-	10	10
Total of cases, . . .	58	75	133	10	17	27
of persons, . . . . .	56	72	128	6	8	14

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals were obtained by a division of the sums of daily residence for the year by 366, the number of days in the year.

† Three men admitted, 3 men and 1 woman discharged, as *not insane*, are not included in the following tables.

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## 4. Ages of Persons Admitted for the First Time.

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital, . . . . .	—	—	—	—	—	—
Fifteen years and less, . . . . .	1	1	2	1	1	2
From 15 to 20 years, . . . . .	3	6	9	2	3	5
20 to 25 years, . . . . .	4	4	8	4	6	10
25 to 30 years, . . . . .	2	11	13	4	12	16
30 to 35 years, . . . . .	5	1	6	5	1	6
35 to 40 years, . . . . .	2	7	9	2	9	11
40 to 50 years, . . . . .	4	9	13	7	13	20
50 to 60 years, . . . . .	2	5	7	5	5	10
60 to 70 years, . . . . .	—	4	4	2	3	5
70 to 80 years, . . . . .	1	—	1	2	5	7
Over 80 years, . . . . .	—	—	—	1	—	1
Unknown, . . . . .	11	10	21	—	—	—
Total of persons, . . . . .	35	58	93	35	58	93

## 5. Parentage of Persons Admitted.

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	1	1	—	1	1	2
New Hampshire, . . . . .	1	2	2	1	3	3
Vermont, . . . . .	3	2	—	4	3	6
Massachusetts, . . . . .	11	13	17	15	28	28
Rhode Island, . . . . .	—	—	1	—	1	—
Connecticut, . . . . .	7	5	5	5	12	10
New York, . . . . .	3	4	1	2	4	6
Pennsylvania, . . . . .	—	1	—	—	—	1
Illinois, . . . . .	1	—	—	—	1	—
Canada, . . . . .	3	2	1	1	4	3
England, . . . . .	2	1	2	2	4	3
Ireland, . . . . .	13	13	35	34	48	47
Scotland, . . . . .	1	1	—	—	1	1
Wales, . . . . .	1	1	—	—	1	1
France, . . . . .	—	1	—	—	—	1
Germany, . . . . .	4	4	1	1	5	5
Austria, . . . . .	—	—	1	1	1	1
Italy, . . . . .	—	—	2	2	2	2
Unknown, . . . . .	5	5	4	3	9	8
Total of persons, . . . . .	56	56	72	72	128	128

6. *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Total.
Hampshire County, . . . . .	6	20	26
Hampden County, . . . . .	31	30	61
Berkshire County, . . . . .	12	14	26
Franklin County, . . . . .	6	7	13
Worcester County, . . . . .	1	1	2
Total of <i>persons</i> , . . . . .	56	72	128
Cities or large towns,* . . . . .	27	36	63
Country districts, . . . . .	29	36	65
Total of <i>persons</i> , . . . . .	56	72	128

\* Containing not less than 10,000 inhabitants.

7. *Civil Condition of Persons Admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	16	18	34	17	27	44	2	13	15	-	-	-
Second, . . . . .	7	4	11	9	3	12	-	3	3	-	-	-
Third, . . . . .	2	-	2	1	1	2	-	-	-	-	-	-
Fourth, . . . . .	-	-	-	-	1	1	-	-	-	-	-	-
Fifth, . . . . .	-	-	-	-	-	-	1	-	1	-	-	-
Sixth, . . . . .	-	-	-	-	1	1	-	-	-	-	-	-
Eleventh, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-
Fourteenth, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-
Total of <i>persons</i> , . . . . .	26	23	49	27	33	60	3	16	19	-	-	-

## 8. Occupations of Persons Admitted.

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
School teacher, . . . .	1	Housekeeper, . . . .	13
Student, . . . . .	1	Seamstress, . . . . .	1
Manufacturer, . . . . .	1	Book-binder's wife, . . . .	1
Paper maker, . . . . .	3	Railroad conductor's wife, . .	1
Clerk, . . . . .	1	Farmer's wife, . . . . .	4
Salesman, . . . . .	1	Machinist's wife, . . . . .	2
Farmer, . . . . .	11	Engineer's wife, . . . . .	1
Mechanic, . . . . .	2	Cigar-maker's wife, . . . . .	2
Cabinet maker, . . . . .	1	Carpenter's wife, . . . . .	1
Armorer, . . . . .	1	Painter's wife, . . . . .	1
Carpenter, . . . . .	2	Shoemaker's wife, . . . . .	1
Stone mason, . . . . .	1	Blacksmith's wife, . . . . .	1
Blacksmith, . . . . .	3	Mill operative, . . . . .	8
Shoemaker, . . . . .	1	Mill operative's wife, . . . .	2
Jeweller, . . . . .	2	Barber's wife, . . . . .	1
Fireman on railroad, . . . .	1	Bartender's wife, . . . . .	1
Mill operative, . . . . .	5	Musician's wife, . . . . .	1
Laborer, . . . . .	13	Laborer's wife, . . . . .	9
None, . . . . .	5	Farmer's daughter, . . . . .	3
<b>Total of persons,</b>	<b>56</b>	Carpenter's daughter, . . . .	1
		Fireman's daughter, . . . . .	1
		Servant, . . . . .	4
		Peddler, . . . . .	1
		Magnetic doctor, . . . . .	1
		Unknown, . . . . .	2
		None, . . . . .	8
		<b>Total of persons, . . . .</b>	<b>72</b>

9. *Reported Duration of Insanity before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER ADMISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	1	3	4	—	—	—	1	3	4
From 1 to 3 months, . . . . .	14	12	26	—	—	—	14	12	26
3 to 6 months, . . . . .	3	7	10	—	—	—	3	7	10
6 to 12 months, . . . . .	3	10	13	3	1	4	6	11	17
1 to 2 years, . . . . .	2	8	10	3	—	3	5	8	13
2 to 5 years, . . . . .	4	5	9	4	4	8	8	9	17
5 to 10 years, . . . . .	2	3	5	6	4	10	8	7	15
10 to 20 years, . . . . .	—	2	2	3	6	9	3	8	11
Over 20 years, . . . . .	—	1	1	3	1	4	3	2	5
Unknown, . . . . .	6	7	13	1	1	2	7	8	15
Total cases, . . . . .	35	58	93	23	17	40	58	75	133
Total persons, . . . . .	35	58	93	22	16	38	56	72	128
Average of known cases, . . . . .	Year. 1 $\frac{1}{3}$	Year. 2 $\frac{2}{3}$	Year. 2 $\frac{2}{3}$	Year. 8 $\frac{1}{4}$	Year. 10 $\frac{1}{4}$	Year. 9 $\frac{1}{4}$	Year. 4 $\frac{1}{2}$	Year. 4 $\frac{1}{2}$	Year. 4 $\frac{1}{2}$

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Total.
Mania, . . . . .	42	41	83
epileptic, . . . . .	1	4	5
Melancholia, . . . . .	11	17	28
Dementia, . . . . .	2	8	10
senile, . . . . .	—	1	1
epileptic, . . . . .	2	3	5
None given, . . . . .	—	1	1
Total of cases, . . . . .	58	75	133
Total of persons, . . . . .	56	72	128

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated. Two patients are repeated, being twice re-admissions, and three are included who are in the first division, they having been admitted for the first and second times within the year.



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## 11. Probable Causes of Insanity in Persons Admitted.

CAUSES.	Males.	Females.	Total.
<i>Physical.</i>			
Ill-health, . . . . .	4	16	20
Intemperance, . . . . .	11	1	12
Overwork, . . . . .	6	6	12
Epilepsy, . . . . .	3	5	8
Sunstroke, . . . . .	1	—	1
Paralysis, . . . . .	—	1	1
Malaria, . . . . .	—	1	1
Masturbation, . . . . .	7	—	7
Injury of head, . . . . .	3	1	4
Injury, . . . . .	2	—	2
Spermatorrhœa, . . . . .	1	—	1
Puerperal, . . . . .	—	3	3
Change of life, . . . . .	—	4	4
Old age, . . . . .	—	4	4
Total of physical, . . . . .	38	42	80
<i>Mental.</i>			
Business trouble, . . . . .	2	—	2
Domestic trouble, . . . . .	—	4	4
Trouble, . . . . .	—	3	3
Disappointment, . . . . .	—	1	1
Disappointment in love, . . . . .	1	—	1
Loss of friends, . . . . .	1	—	1
Religious excitement, . . . . .	—	1	1
Fright, . . . . .	—	1	1
Hard study, . . . . .	—	1	1
Total of mental, . . . . .	4	11	15
Total of physical, . . . . .	38	42	80
Unknown, . . . . .	14	19	33
Total of persons; . . . . .	56	72	128

12. *Relation to Hospitals of the Persons Admitted.*

	Males.	Females.	Total.
Never before in any hospital, . . . .	31	55	86
Former inmates of this hospital, . . . .	17	13	30
Former inmates of other hospitals in this State, . . . . .	1	1	2
Former inmates of this hospital and of other hospitals in this State, . . . . .	1	—	1
Former inmates of hospitals in other States, . . . . .	2	2	4
Former inmates of this hospital and of hospitals in other States, . . . . .	2	1	3
Former inmates of this hospital, of other hospitals in this State, and of hospitals in other States, . . . . .	1	—	1
Former inmates of foreign hospitals (Germany), . . . . .	1	—	1
Total of <i>persons</i> , . . . . .	56	72	128

## 13. Discharges Classified by Admission and Result.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTAL.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	8	14	22	4	8	12	11	16	27	10	13	23	10	10	20	48	61	104
Second, . . . . .	1	1	2	1	3	4	3	3	6	6	6	12	2	3	5	13	16	29
Third, . . . . .	-	-	-	1	-	1	1	-	1	-	-	-	-	-	-	2	-	2
Sixth, . . . . .	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1
Eleventh, . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Fourteenth, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Total of cases, . . . . .	9	16	25	6	11	17	16	19	35	16	20	36	12	13	25	69	79	138
Total of persons, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69	77	136

## 14. How Supported.

SUPPORTED AS	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Total.	Males.	Females.	Total.
State patients, . . .	16	18	34	83.37	71.73	155.10
Town patients, . . .	32	48	80	113.88	137.35	251.23
Private patients, . . .	13	9	22	29.87	26.19	56.06
Total of cases, . . .	61	75	136	227 13	235.90	*462.39

\* This weekly average is 64-100 less than the daily average, 463.05.

## 15. Cases Discharged Recovered — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . .	5	—	5	2	1	3	—	—	—
From 1 to 3 months, . . .	2	9	11	6	6	12	6	4	10
3 to 6 months, . . .	2	2	4	—	2	2	2	4	6
6 to 12 months, . . .	—	2	2	1	4	5	1	3	4
1 to 2 years, . . .	—	3	3	—	2	2	—	2	2
2 to 5 years, . . .	—	—	—	—	1	1	—	3	3
5 to 10 years, . . .	—	—	—	—	—	—	—	—	—
10 to 20 years, . . .	—	—	—	—	—	—	—	—	—
Over 20 years, . . .	—	—	—	—	—	—	—	—	—
Unknown, . . .	—	—	—	—	—	—	—	—	—
Total of cases, . . .	9	16	25	9	16	25	9	16	25
Total of persons, . . .	9	16	25	9	16	25	9	16	25
Average of known cases (in months), . . .	1 $\frac{1}{2}$	6	4 $\frac{1}{2}$	2 $\frac{1}{2}$	7	5 $\frac{1}{2}$	3 $\frac{1}{2}$	11 $\frac{1}{2}$	8 $\frac{1}{2}$

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## 16. Cases Resulting in Death — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . .	4	—	4	1	—	1	—	—	—
From 1 to 3 months, . . .	4	1	5	2	—	2	2	—	2
3 to 6 months, . . .	1	1	2	2	2	4	2	—	2
6 to 12 months, . . .	—	2	2	—	—	—	1	—	1
1 to 2 years, . . .	1	3	4	2	1	3	1	1	2
2 to 5 years, . . .	—	3	3	1	1	2	1	3	4
5 to 10 years, . . .	—	3	3	3	3	6	3	3	6
10 to 20 years, . . .	—	—	—	1	4	5	1	4	5
Over 20 years, . . .	—	—	—	—	2	2	—	2	2
Unknown, . . .	2	—	2	—	—	—	1	—	1
Total, . . .	12	13	25	12	13	25	12	13	25
Average of known cases (in months), . . .	3½	37½	22½	40½	116½	79½	43½	148½	100½

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Total.	Males.	Females.	Total.
Mania, . . . . .	6	13	19	4	9	13
paretic, . . . . .	—	—	—	1	—	1
epileptic, . . . . .	—	—	—	—	1	1
Melancholia, . . . . .	8	8	6	6	2	8
Dementia, . . . . .	—	—	—	1	—	1
epileptic, . . . . .	—	—	—	—	1	1
Total, . . . . .	9	16	25	12	13	25

*18. Causes of Death.*

CAUSES.	Males.	Females.	Total.
<b>Nervous system, —</b>			
Epilepsy, . . . . .	—	1	1
Paresis, . . . . .	1	—	1
Paralysis, . . . . .	—	3	3
Progressive paralysis, . . . . .	—	1	1
Organic disease of the brain, . . . . .	2	—	2
Exhaustion of acute mania, . . . . .	1	—	1
Exhaustion of chronic insanity, . . . . .	1	—	1
<b>Circulatory, —</b>			
Disease of the heart, . . . . .	—	1	1
<b>Respiratory, —</b>			
Phthisis, . . . . .	2	4	6
Pneumonia, . . . . .	1	1	2
Pleurisy, . . . . .	1	—	1
<b>Digestive, —</b>			
Hepatitis, . . . . .	—	1	1
<b>General, —</b>			
Old age, . . . . .	—	1	1
<b>Accidental, —</b>			
Suicide, . . . . .	3	—	3
<b>Total, . . . . .</b>	<b>12</b>	<b>13</b>	<b>25</b>

## 19. Deaths, Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		TOTAL.	
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Total.
Second, . . . .	1	-	1	1	-	1	-	1	1	2
Totals, . . . .	1	-	1	1	-	1	-	1	1	2
										3
										5
										3
										5

## 20. Recoveries, Classified by Results of Previous Admissions.\*

NUMBER OF THE ADMISSION.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		TOTAL.	
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Total.
Second, . . . .	1	1	2	1	-	1	-	-	-	2
Fourteenth, . . . .	-	1	1	-	-	-	-	-	-	-
Total, . . . .	1	2	3	1	-	1	-	-	-	2
										2
										4

\* In all cases of more than one admission, the classification is based upon the result of the admission next preceding the last, in each case respectively.

## 21. Deaths, Classified by Duration of Insanity and of Treatment.

PERIOD.	DURATION OF INSANITY. "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital, . . . . .	-	-	-	-	-	-
Under 1 month, . . . . .	-	-	-	1	-	1
From 1 to 3 months, . . . . .	2	-	2	2	-	2
3 to 6 months, . . . . .	2	-	2	2	2	4
6 to 12 months, . . . . .	1	-	1	-	-	-
1 to 2 years, . . . . .	1	1	2	2	1	3
2 to 5 years, . . . . .	1	3	4	1	1	2
5 to 10 years, . . . . .	1	2	3	3	2	5
10 to 20 years, . . . . .	2	4	6	1	5	6
Over 20 years, . . . . .	1	2	3	-	2	2
Unknown, . . . . .	1	1	2	-	-	-
Totals, . . . . .	12	13	25	12	13	25
Average of known cases (in months), . . . . .	77 $\frac{1}{11}$	153	116 $\frac{1}{2}$	39 $\frac{1}{11}$	118 $\frac{1}{13}$	80 $\frac{1}{2}$

## 22. Ages of those who Died.

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Total.	Males.	Females.	Total.
Fifteen years and less, . . . . .	-	1	1	-	-	-
From 15 to 20 years, . . . . .	-	1	1	-	-	-
20 to 25 years, . . . . .	-	1	1	-	1	1
25 to 30 years, . . . . .	2	-	2	1	-	1
30 to 35 years, . . . . .	2	1	3	1	2	3
35 to 40 years, . . . . .	1	-	1	2	-	2
40 to 50 years, . . . . .	3	2	5	2	5	7
50 to 60 years, . . . . .	1	-	1	2	2	4
60 to 70 years, . . . . .	-	1	1	-	1	1
70 to 80 years, . . . . .	1	-	1	4	2	6
Over 80 years, . . . . .	-	-	-	-	-	-
Unknown, . . . . .	2	6	8	-	-	-
Totals, . . . . .	12	13	25	12	13	25





[illegible]

23. *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1884.*

YEARS.	NEW CASES (FIRST ADMISSIONS).											
	ADMITTED.			RECOVERED.			MUCH IMPROVED.			IMPROVED.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1858, 2 months.	99	129	228	-	-	-	-	-	-	-	-	-
1858-59, .	42	46	88	-	-	-	-	-	-	-	-	-
1859-60, .	66	91	157	-	-	-	-	-	-	-	-	-
1860-61, .	58	46	104	-	-	-	-	-	-	-	-	-
1861-62, .	51	43	94	-	-	-	-	-	-	-	-	-
1862-63, .	56	57	113	-	-	-	-	-	-	-	-	-
1863-64, .	35	30	65	-	-	-	-	-	-	-	-	-
1864-65, .	54	55	109	-	-	-	-	-	-	-	-	-
1865-66, .	66	52	118	-	-	-	-	-	-	-	-	-
1866-67, .	42	69	111	-	-	-	-	-	-	-	-	-
1867-68, .	54	71	125	-	-	-	-	-	-	-	-	-
1868-69, .	72	64	136	-	-	-	-	-	-	-	-	-
1869-70, .	80	103	183	-	-	-	-	-	-	-	-	-
1870-71, .	93	88	181	-	-	-	-	-	-	-	-	-
1871-72, .	83	85	168	-	-	-	-	-	-	-	-	-
1872-73, .	89	69	158	-	-	-	-	-	-	-	-	-

[illegible]

23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1884 — Concluded.

YEARS.	RE-ADMITTED CASES.										REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1884.											
	ADMITTED.			DISCHARGED AND DIED IN 1883-84.																		
	Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			Total.	Males.	Females.	Total.
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.				
1858, 2 months.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	5	-	16
1858-59.	4	1	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	4
1859-60.	7	3	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	1	6
1860-61.	13	7	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	1	1	4
1861-62.	13	5	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	2
1862-63.	14	11	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	4	8
1863-64.	12	15	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	1	5
1864-65.	16	9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	3	3	8
1865-66.	9	9	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	1	1	5
1866-67.	19	8	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	2	5
1867-68.	14	13	27	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3	3	3	8
1868-69.	12	21	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	5	11
1869-70.	10	9	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	5	5	9
1870-71.	16	14	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10	20
1871-72.	18	13	31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	9	9	15
1872-73.	13	10	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	7	7	13

[illegible]

One woman, admitted in 1882-83, and discharged *not* insane, this year, does not appear in this table.







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## 25. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Total.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.53	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	55.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39

## 26. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1883.</b>		
October, . . . . .	41,350	1,333.87
November, . . . . .	44,950	1,498.33
December, . . . . .	45,050	1,453.22
<b>1884.</b>		
January, . . . . .	43,750	1,411.29
February, . . . . .	35,650	1,229.31
March, . . . . .	31,900	1,029.03
April, . . . . .	25,050	835.
May, . . . . .	16,650	537.09
June, . . . . .	12,200	406.66
July, . . . . .	12,850	414.51
August, . . . . .	17,750	572.58
September, . . . . .	27,900	930.
Totals, . . . . .	355,050	970.08 *

\* Daily average for the year.

## 27. Supplies for the Several Departments for the Year 1883-84.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Rubber Sheets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtains.	Wash-bowls.	Knives.	Chambers.	Mirrors.	Hair Brushes.	Combs.	Carpet Stripes.	Plates.	Cups.	Saucers.	Tumblers.	Mugs.	Bowls.	Pitchers.	Syrup Cups.	Knives.	Forks.	Lanterns.
<i>Men's Department.</i>																											
Upper 1st Hall,	10	20	-	6	-	-	-	30	-	-	-	9	1	-	-	1	12	30	30	36	-	-	-	2	-	-	-
2d Hall,	12	28	6	1	-	4	-	12	12	2	-	8	1	-	3	6	15	21	20	2	-	-	-	-	-	-	-
3d and 4th Halls,	22	37	6	6	-	9	-	6	7	-	-	18	1	4	4	7	18	12	12	6	-	-	-	-	-	-	-
Middle 1st Hall,	14	42	4	6	2	1	4	6	7	-	-	6	1	2	2	14	27	6	6	-	-	-	1	-	-	-	-
2d Hall,	12	18	-	-	-	-	-	-	-	-	-	20	1	1	9	7	-	-	-	-	-	-	1	-	-	-	-
3d and 4th Halls,	6	80	-	18	-	15	-	18	8	-	-	43	-	1	6	-	15	6	36	-	-	-	3	-	-	-	-
Lower 1st Hall,	-	41	6	-	-	-	-	-	-	-	-	12	-	-	-	-	18	6	6	-	-	-	2	-	-	-	-
2d Hall,	18	25	-	12	-	8	-	8	7	1	-	19	-	1	10	-	12	3	3	3	-	-	1	-	-	-	-
3d and 4th Halls,	12	36	-	10	2	-	-	12	-	-	-	21	-	3	9	-	12	2	-	8	-	-	1	-	-	-	-
<i>Women's Department.</i>																											
Upper 1st Hall,	24	24	6	-	-	-	-	18	-	1	2	6	-	-	-	-	6	12	12	-	-	-	6	1	-	-	-
2d Hall,	54	43	7	6	4	1	1	60	2	1	1	11	1	-	10	6	12	12	24	-	-	-	3	-	-	-	-
3d Hall,	24	28	2	12	1	9	6	22	4	1	-	12	1	-	9	9	18	24	24	18	-	-	-	-	-	-	-
4th Hall,	12	12	4	6	-	4	-	6	4	-	-	10	-	-	4	6	-	6	6	18	-	-	-	-	-	-	-
Middle 1st Hall,	12	22	-	-	1	12	5	22	-	-	1	6	-	-	8	6	-	6	12	-	-	-	4	-	-	-	-
2d Hall,	12	22	-	12	7	4	6	12	-	1	1	24	1	-	8	4	30	18	12	-	-	-	1	-	-	-	-
3d Hall,	36	40	-	6	6	9	6	16	-	1	1	15	1	-	12	3	12	-	-	-	-	-	1	-	-	-	-
4th Hall,	12	12	-	6	2	1	-	16	-	-	-	6	1	1	7	-	-	-	-	-	-	-	-	-	-	-	-
Lower 1st Hall,	6	12	6	8	-	-	-	28	2	-	-	12	-	-	13	1	-	-	-	-	-	-	10	3	-	-	-
2d Hall,	28	24	-	24	6	2	6	12	-	4	-	15	-	-	24	3	-	-	6	-	-	12	-	1	-	-	-
3d Hall,	16	16	-	8	2	2	2	-	-	1	-	6	-	-	15	5	-	-	-	-	-	6	-	-	-	-	-
4th Hall,	18	6	-	-	-	-	-	-	-	-	-	3	1	-	3	5	6	-	60	-	-	-	-	-	-	-	-
Kitchen,	-	-	-	2	-	-	-	19	7	-	-	1	1	1	2	2	-	22	24	2	-	-	12	3	14	16	-
Rear,	11	37	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Centre,	8	8	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aggregate,	379	583	42	156	35	109	36	363	75	13	7	283	9	13	158	69	408	176	240	186	100	63	32	4	28	21	8

## 27. Supplies for the Several Departments for the Year 1883-84 — Concluded.

	Spoons.	Glass Casters.	Table-spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish-towels.	Rollers.	Wash-basins.	Soap, pounds.	Brooms.	Whisks.	Dust-brushes.	Scrub-brushes.	Dust-pans.	Mops.	Falls.	Spittoons.	Blacking.	Shoe-brushes.	Spools Thread.	Skins Linen Thread.	Paper Needles.	Papers Pins.	Rubber Chambers.	
<b>Men's Department.</b>																											
Upper 1st Hall, . . .	—	2	3	18	—	—	—	12	12	—	60	10	3	2	3	—	—	—	1	—	9	1	5	—	—	1	—
2d Hall, . . .	—	—	—	—	—	—	6	6	12	—	54	15	2	—	1	—	—	—	1	—	6	—	—	—	—	2	—
3d and 4th Halls, . . .	—	—	—	—	—	—	6	12	6	—	82	18	3	—	2	—	—	—	—	—	9	1	—	—	—	1	—
Middle 1st Hall, . . .	—	—	—	—	—	—	—	—	—	—	30	13	2	—	1	—	—	—	—	—	11	—	3	—	—	2	—
2d Hall, . . .	—	—	—	—	6	12	12	6	12	—	88	22	2	—	—	—	—	—	—	—	27	3	—	—	—	1	—
3d and 4th Halls, . . .	—	—	—	—	—	24	24	18	6	—	78	22	—	2	2	—	—	—	2	2	18	—	—	—	—	—	—
Lower 1st Hall, . . .	—	—	—	—	—	—	6	12	15	—	18	12	4	—	—	—	—	—	1	1	11	1	—	—	—	—	—
2d Hall, . . .	—	—	—	—	—	—	6	12	6	—	62	16	4	—	—	—	—	—	1	2	15	1	—	—	—	—	—
3d and 4th Halls, . . .	—	1	—	—	—	—	—	12	6	1	54	24	1	3	2	—	—	6	4	—	14	1	8	—	—	3	—
<b>Women's Department.</b>																											
Upper 1st Hall, . . .	—	1	2	12	—	—	12	12	6	—	36	7	—	1	—	—	—	—	1	—	—	—	—	—	—	2	—
2d Hall, . . .	—	—	3	—	—	—	24	—	—	—	58	17	1	2	—	—	—	2	3	—	—	12	—	—	—	9	—
3d Hall, . . .	—	—	—	—	—	—	36	—	—	—	46	13	—	—	—	—	—	—	2	—	—	14	—	—	6	—	
4th Hall, . . .	—	—	—	—	—	—	—	6	—	—	38	8	—	3	—	—	—	1	—	—	—	6	—	—	4	—	
Middle 1st Hall, . . .	—	—	—	—	—	—	18	—	12	—	42	11	—	1	1	—	—	—	—	—	—	11	—	—	8	—	
2d Hall, . . .	—	—	—	—	—	12	—	—	6	—	60	22	1	2	—	—	—	3	1	—	—	22	—	—	7	—	
3d Hall, . . .	—	—	—	—	—	—	6	—	6	—	50	17	1	—	—	—	—	8	1	—	—	19	—	—	8	—	
4th Hall, . . .	—	—	—	—	—	—	—	—	—	—	46	10	1	—	—	—	—	1	—	—	—	11	—	—	5	—	
Lower 1st Hall, . . .	—	1	—	2	—	—	24	—	—	—	90	25	7	—	—	—	—	—	—	—	—	14	—	—	2	—	
2d Hall, . . .	—	—	—	—	—	—	6	—	—	—	62	7	—	—	—	—	—	2	—	—	—	30	—	—	4	—	
3d Hall, . . .	—	—	—	—	—	6	6	—	—	—	18	5	—	—	—	—	—	—	1	—	—	5	—	—	3	—	
4th Hall, . . .	—	—	4	2	36	12	—	10	12	—	51	55	2	—	—	—	—	—	—	—	—	12	—	—	—	2	—
Kitchen, . . .	—	—	—	—	—	6	—	—	—	—	151	94	10	3	2	—	—	2	4	—	—	—	—	—	—	—	—
Rear, . . .	—	—	—	—	—	—	—	—	2	—	40	8	3	1	—	—	—	1	3	—	—	—	—	—	—	—	—
Centre, . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Aggregate,</b> . . .	—	15	12	34	60	87	186	148	107	3	1,364	472	33	30	18	7	39	31	8	119	9	172	—	29	106	7	—

28. *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Total.	Women.	Men.	Women.	Total.
<b>1883.</b>								
October, .	967	124	254	378	157	56	380	436
November, .	784	120	230	350	140	51	353	404
December, .	673	124	237	361	153	51	374	425
<b>1884.</b>								
January, .	529	124	240	364	152	48	387	435
February, .	439	116	223	339	138	49	352	401
March, .	461	124	242	366	171	51	374	425
April, .	642	120	235	355	154	52	364	416
May, .	941	124	219	343	145	54	375	429
June, .	1,107	120	242	362	152	50	338	388
July, .	1,194	124	226	350	156	54	373	427
August, .	919	124	243	367	168	52	355	407
September, .	885	120	240	360	174	52	392	444
Totals, .	9,541	1,464	2,831	4,295	1,860	620	4,417	5,037

The patients whose work is recorded in this table, were employed as many hours in the day as were the employees in each of the several departments respectively. The total number of days' work is 20,733, to which may be added 1,100 days, by men, in the mattress room, making an aggregate of 21,833 days. The number is larger, by more than five hundred, than in any preceding year. No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler room, and the carpenter's shop. A large amount of other work is done, both in the halls, and, at irregular times, out of them.

29. *List of Articles made in the Sewing-Room.*

Dresses, . . . . .	340	Straw-ticks, . . . . .	121
Waists, . . . . .	16	Pillow-ticks, . . . . .	24
Chemises, . . . . .	249	Bed-spreads hemmed, . . . . .	42
Drawers, . . . . .	83	Curtains, . . . . .	83
Skirts, . . . . .	136	Napkins hemmed, . . . . .	50
Sacques, . . . . .	4	Table-cloths, . . . . .	14
Night-dresses, . . . . .	29	Dish-towels, . . . . .	376
Hats trimmed, . . . . .	83	Dish-towels hemmed, . . . . .	107
Shirts, . . . . .	325	Roller-towels, . . . . .	168
Suspenders, pairs, . . . . .	199	Bathing-towels, . . . . .	41
Collars, . . . . .	158	Carpets made, . . . . .	7
Aprons, . . . . .	179	Carpet-strips hemmed, . . . . .	76
Camisoles, . . . . .	7	Clothes-bags, . . . . .	3
Sheets, . . . . .	450	Bureau spreads, . . . . .	12
Pillow-cases, . . . . .	564	Cushions, . . . . .	3
Bolster-cases, . . . . .	42	Pants, . . . . .	3
Mattress-ticks, . . . . .	49	Articles repaired, . . . . .	29,105

30. *Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	35
Hair mattresses made, new ticks, . . . . .	33
Hair mattresses overhauled, hair repicked, . . . . .	39
New husk underbeds made, new materials, . . . . .	34
Old underbed ticks filled with new husks, . . . . .	118
Hair pillows made, new materials, . . . . .	28
Old pillow-ticks filled with new hair, . . . . .	13
Hair pillows overhauled, hair repicked, . . . . .	39

*31. Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475 35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23

The hospital has always been supplied with gas by the Northampton Gas Light Company. Until April 1, 1879, the price was \$3.25 per thousand cubic feet, with an additional charge for meter-rent. Since that time it has been but \$3.00, including meter-rent, and during the last two years with a discount of 5 per cent.

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## 32. Trustees of the Northampton Lunatic Hospital.

NAME.	RESIDENCE.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,* .	Northampton, .	1856	1857	Term expired.
Lucien C. Boynton, .	Uxbridge, .	1856	1858	" "
Eliphalet Trask, .	Springfield, .	1856	1875	" "
John C. Russell,* .	Great Barrington,	1856	1859	Resigned.
Horace Lyman, .	Greenfield, .	1856	1857	Removed.
Charles Smith, .	Northampton, .	1857	1860	Resigned.
Luther V. Bell,* .	Somerville, .	1857	1859	"
Zebina L. Raymond,*	Greenfield, .	1858	1859	"
Franklin Ripley,* .	Greenfield, .	1859	1860	Died in office
Edward Dickinson,*	Amherst, .	1859	1864	Resigned.
Walter Lafin,* .	Pittsfield, .	1859	1866	Term expired
Silas M. Smith, .	Northampton, .	1860	1863	" "
Charles Allen, .	Greenfield, .	1860	1861	Resigned.
Alfred R. Field,* .	Greenfield, .	1861	1864	"
Edward Hitchcock, .	Amherst, .	1863	1879	"
Silas M. Smith, .	Northampton, .	1864	-	Still in office
Edmund H. Sawyer,*	Easthampton, .	1864	1879	Died in office.
Henry L. Sabin,* .	Williamstown, .	1866	1876	Term expired.
Adams C. Deane, .	Greenfield, .	1875	-	Still in office.
Henry W. Taft, .	Pittsfield, .	1876	-	" "
William M. Gaylord,	Northampton, .	1879	1883	Term expired.
Lyman D. James, .	Williamsburg, .	1879	-	Still in office.
Christop'r C. Merritt,	Springfield, .	1883	-	" "
Sarah A. Woodworth,	Chicopee, .	1884	-	" "
Sarah M. Butler, .	Northampton, .	1884	-	" "

\* Deceased.

*33. Officers and Employees.*

Time employed, March 1, 1884.

NAME.	Years.	Months.	Days.
Pliny Earle, M. D., Superintendent, . . . . .	19	7	26
Edward B. Nims, M. D., Ass't Sup't, . . . . .	15	2	14
Daniel Pickard, M. D., 1st Ass't Physician, . . . . .	6	10	22
David G. Hall, M. D., 2d Ass't Physician, . . . . .	1	8	13
Walter B. Welton, Clerk, . . . . .	18	—	14
John Mercier, Farmer, . . . . .	16	8	—
Danford Morse, Engineer, . . . . .	19	—	7
Robert H. Gallivan, Supervisor, . . . . .	10	10	11
Lucy A. Gilbert, Supervisor, . . . . .	17	—	18
F. Josephus Rice, Steward, . . . . .	25	4	24
Mary Ward, Seamstress, . . . . .	13	6	8
William Timothy, Baker, . . . . .	—	1	11
Frances C. Earle, Assistant Clerk, . . . . .	11	11	6
Minnie J. Guilfoil, Assistant Supervisor, . . . . .	5	5	24
Gertrude C. Arnold, Assistant Seamstress, . . . . .	—	5	—
Minnie J. Howes, Laundress, . . . . .	5	—	26
Victoria S. Pillinger, Assistant Laundress, . . . . .	7	8	9
Edward Connors, Attendant, . . . . .	2	8	9
Henry W. Estey, Attendant, . . . . .	1	11	5
William J. Douglass, Attendant, . . . . .	1	11	3
John L. Howard, Attendant, . . . . .	1	8	23
Myron O. Barnard, Attendant, . . . . .	1	1	17
James J. Douglass, Attendant, . . . . .	1	—	8
Thomas Kelly, Attendant, . . . . .	—	11	18
Frank Lawson, Attendant, . . . . .	—	9	10
John Keating, Attendant, . . . . .	—	6	18
Walter W. Burnham, Attendant, . . . . .	—	4	29
Melvin G. Overlock, Attendant, . . . . .	—	3	1
Frank Holdrige, Attendant, . . . . .	—	1	25
Maria E. Graves, Attendant, . . . . .	16	1	7
Jane McGuire, Attendant, . . . . .	8	10	3
Cécile Riel, Attendant, . . . . .	7	4	23
Frances F. Poor, Attendant, . . . . .	5	4	13
Naomi A. Griffin, Attendant, . . . . .	3	9	21
Barbara McDonald, Attendant, . . . . .	2	7	9
Philomène Goyette, Attendant, . . . . .	1	7	16
Sadie A. McNeill, Attendant, . . . . .	1	3	22
Céleste Goyette, Attendant, . . . . .	1	3	3
Flora R. Brown, Attendant, . . . . .	1	2	25
Emma Moodie, Attendant, . . . . .	1	2	—
Mary Hall, Attendant, . . . . .	—	9	10
Jeanette McLean, Attendant, . . . . .	—	6	3
Minnie Laventure, Attendant, . . . . .	—	3	9
Annie Preble, Attendant, . . . . .	—	2	11
Julia R. Lane, Attendant, . . . . .	—	2	7
Esther Henderson, Attendant, . . . . .	—	—	11
Jessie A. Rand, Night Watch, . . . . .	2	—	11
Hattie Halladay, Farmers' Dining Room, . . . . .	9	7	14
Hattie Gamwell, Centre, . . . . .	—	—	24



*33. Officers and Employees. — Concluded.*

NAME.	Years.	Months.	Days.
Ida R. Howes, Centre, . . . . .	4	6	18
Thomas C. Powers, Assistant Steward, . . . . .	9	11	11
Matilda Day, Cook, . . . . .	—	9	4
Nellie Clark, Assistant Cook, . . . . .	6	—	27
Lillian M. Douglass, Assistant Cook, . . . . .	2	4	22
Lillian M. Ferry, Assistant Cook, . . . . .	1	5	3
Mary A. Carnes, Rear, . . . . .	—	8	—
William C. Hall, Assistant Engineer, . . . . .	18	5	17
Nicholas Riel, Night Engineer, . . . . .	8	2	25
Walter E. Pillinger, Watchman, . . . . .	9	9	29
Sifroi Belville, Carpenter, . . . . .	13	10	7
Walter Tower, Carpenter, . . . . .	7	3	—
Alfred Parenteau, Painter, . . . . .	18	6	18
David Mercier, Coachman, . . . . .	7	—	14
Benjamin Rockwell, Assistant Farmer, . . . . .	16	9	—
Elson E. Howes, Assistant Farmer, . . . . .	6	11	23
Julius Freeman, Assistant Farmer, . . . . .	6	7	24
Henry Wilson, Assistant Farmer, . . . . .	4	10	8
James Madden, Assistant Farmer, . . . . .	—	9	15
Eugene Sullivan, Assistant Farmer, . . . . .	—	9	15
James McClellan, Car Boy, . . . . .	—	11	30

## CHRONOLOGY.

[N. B. The years are the calendar years, and not the official years of the hospital.]

- 1855.** Legislative Act authorizing the construction of the hospital by a board of three commissioners, approved by the Governor, May 21st.  
Enos Clark lot bought, northeast corner of the farm; 24a. Deed executed Sept. 3. This lot was conveyed back to Mr. Clark and reconveyed to the Commonwealth, May 13, 1856.  
William Parsons lot bought; 28a. 25r. Deed executed Sept. 4.  
Samuel Day lot bought; 5a. 16r. Deed executed Sept. 4.  
George Ellsworth's farm and buildings bought; 100a. 94r. Deed executed Sept. 5.  
Samuel Phelps lot bought; 9a. 60r. Deed executed Sept. 6.  
Silas D. Clark lot bought; 5a. 20r. Deed executed Sept. 6.
- 1856.** Legislative Act, establishing a board of trustees, approved by the Governor, June 3.  
July 4. Corner-stone laid.  
July 4. First meeting of the board of trustees, at the Warner House.
- 1857.** Oct. 1. Term of building commissioners expired.  
Oct. 1. Trustees voted to proceed to complete the building.
- 1858.** Feb. 19. By-laws, as reported by Mr. Boynton, adopted.  
August. Hospital opened.
- 1859.** The hospital was at first supplied with water by Mr. Damon, from his pond on Mill River.  
March 16. A break occurred at the west end of Mr. Damon's dam, destroying the water power. Water was brought in barrels, and pumped into the tank, until the twenty-fifth of the month.
- 1860.** A high, wooden, picket fence built next the county road, from the farm house westward.  
Foundation walls for the barn laid.  
A brick pump house, with boiler and pump, for forcing water to the hospital, was erected on the premises near Mr. Damon's dam. It stood until after water was taken from the public water works, and was then taken down.
- 1861.** Five small lots of land bought, one-eighth of an acre each. Deed executed by William H. Prince, May 13.  
July 31. The barn and the adjoining piggery are finished.

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August 31. The coal-house is finished. This is the coal-house adjoining the boiler-room. Prior to its construction, a roadway, which was laid out around the whole building, passed over its site.

The bowling alley was erected this summer.

**1862.** The reservoir at the spring, southwest of the hospital, and on the premises, was made, and the adjoining pump house erected. November. Cooking range and broiler put in the kitchen.

**1863.** March 31. The water works at the spring are in successful operation. The power was a caloric engine, taken on trial. Several breakages had occurred. There were others afterwards, and, on the 5th of August, it was voted not to accept the engine.

**1864.** A new steam forcing-pump put into the house at the spring. The four original flue steam boilers taken out, and replaced by tubular ones.

All the pipes for the distribution of water throughout the house were taken down and cleaned out.

The roadway at the main entrance from the county road graded down. This entrance was closed in the spring of 1869. It was half-way down the hill, east of the present entrance.

**1865.** Mattress making by the patients introduced.

Storeroom for groceries and meats fitted up, and an outside door opening directly into it made.

A storeroom for charcoal made in the north basement.

A paint shop and a storeroom for vinegar and soap made in the south basement.

Partitions made at the foot of the stairways, and across the halls leading to the laundry and the sewing-room.

Coal-house at the railroad built.

A painter hired as a permanent employee.

Hill east of lower or main entrance partly graded down.

Peat meadow lot bought of W. C. Rice; 1a. 90r. Deed executed Sept. 19.

Vestibules to the superintendent's apartments, on the second and third floors, partitioned off from the rotunda, and doors made from them into the bath-rooms.

Began to grade down the bluff next the county road, between the farm-house and the lower entrance.

Philosophical and chemical apparatus bought.

Storeroom for sand made in basement.

A steam whistle put in, the sound of the bell not being sufficiently loud for all purposes.

New road made in front of the north wing. The original road was much nearer the building, and extended around the wing.

**1866.** Two iron water tanks put in north attic. All the original tanks were of wood.

Hay scales bought and put in place.

Chapel painted in water colors.

Doors put upon the staircases, between the third and fourth halls, both north and south.

An additional (fourth) steam boiler put in.

Iron settees put in the rotunda. Up to this time there had been no furniture, except the large boxes of plants, and no pictures in either of the three stories of the rotunda.

- 1867.** Sewing-room doubled in size, and the dry-goods cases in it made. Case made for philosophical apparatus.

New road finished across the lawn, in front of the south wing, and the old one closed.

Horse-chestnut trees set in front of the south wing.

Bath-rooms, lavatories, and water-closets of the south wing remodelled, and the ventilation improved.

Land for a depot for peat, or "meadow-muck," bought of William Foley; 80r. Deed executed June 18.

Carriage road made across west end of west meadow.

Floor of lower 3d hall, south, relaid. Nearly all of the hall floors were of maple, insufficiently seasoned. After this date, one or more of them was relaid every year, until 1877, when only one of the original floors of the twenty-four halls remained.

The brownstone piers, for a gateway at the upper entrance, were built.

- 1868.** Iron gates at the main entrance put up, and the former main entrance closed.

Exchange of land with Samuel Day, reducing the number of boundary lines from five to two. Day's deed executed Sept. 30 (see Registry of Deeds, Book 255, p. 807).

The stone wall of the south barnyard built.

Book-case, lower rotunda, north side, made; also nearly fifty wardrobes.

- 1869.** Piggery removed twenty-nine feet westwardly, its height to the eaves increased eighteen inches, and the shed connecting it to the barn erected.

The capacity of the coal-house at the railroad was doubled by an extension.

Grading of the bluff, next the county road, finished, and a wooden picket-fence made from the main entrance to the foot of the hill.

Samuel Parsons' lot, south of county road, bought; 7a., more or less. Deed executed June 5. See Registry of Deeds, Book 262, p. 253; see, also, Book 268, p. 327.

Curved iron fence at entrance gate put up.

Four additional cases, for books, etc., put into the rotundas.

New building, for laundry and other purposes, erected.

- 1870.** New laundry put in operation in January. The old laundry was over the boiler-room and the engine-room.

A severe hail-storm, on the 20th of May, broke about five hundred panes of glass in the hospital building.

Barn remodelled. Cow stable changed from north to south side. The frame strengthened by larger timbers.

Carpenter's shop built on the walls of the coal-house. The old shop was in the basement of the south wing of the hospital.

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Shop for engineer partitioned off from old laundry and carpenter's shop.

Screw-cutting and drill machines put in.

Two more iron water-tanks put in attic of north wing.

Gold's radiators put in the basement of the second sections of both wings.

Old clothes-drying room divided, making a room for the flat-heater, and a lodging-room.

**1871.** Floor of old laundry, now lumber-drying room, relaid.

Cart shed built at the northwest corner of the bowling alley.

Original heating apparatus taken out of the basement of the south wing, the four air-chambers united into one, the track of the railroad changed, and Gold's radiators put in.

Began to take water of the Northampton Water Works Co.  
December 25.

**1872.** Old blacksmith's shop, under superintendent's office, fitted up as a storeroom for groceries.

Walls of upper 4th hall, south, painted in oil. Since that time the walls of all the patients' halls, dining-rooms and dormitories, have been similarly painted.

Floor of the middle rotunda relaid.

Sixteen fire hydrants placed in the wings, and four out of doors.

Cart shed extended across west end of bowling alley.

Old folding-room of the laundry divided by a permanent partition, and an outside door, with platform and steps, made, furnishing apartments for the engineer and his family.

Basement of north wing remodelled, and new radiators put in, to correspond with that of the south wing, after the change in 1871.

Five forty-inch ventilators put upon the roof of the hospital.

Floor of the laundry folding-room relaid.

The walls of all the airing courts were erected and finished before November 1.

A large storeroom for apples fitted up in the basement of the south wing. In the original structure this room had no light, as there were no windows beneath the water table on the front of the building.

**1873.** Room opposite the sewing-room divided by a permanent partition, making a room for the seamstress, and another for storage.

The floors of twenty of the twenty-four halls have now been relaid.

The floor of the upper rotunda was relaid.

All the distributing-pipes for water were taken out and replaced by new ones, those for cold water being lined with cement.

Elevator from the folding-room to the sewing-room put in, and the laundry and the sewing-room connected by a narrow staircase.

Circular saw put in.

One hot-water tank, in the rotunda basement, taken out and replaced by a new one.

All the bath-rooms, lavatories, and water-closets of the north wing remodelled, with new floors and larger sinks.

Two of Wright's bucket-plunger steam-pumps put in.

The old clay pit, southeast of the hospital, on land received, in exchange, from Samuel Day, was filled by grading down the adjoining bluffs.

The subordinate office of steward was created.

New cooking apparatus, boiler excepted, put in.

Oven in bakery rebuilt.

**1874.** Clarke orchard bought; 15a. 79r. Deed executed May 15th.

Iron receiving tank put in the fourth story of the centre. The old tank was of wood, and sixteen feet in diameter.

A new steam cylinder affixed to the engine, increasing its power about one-third.

A ventilating pipe from the kitchen to the large chimney put in.

Letter boxes put in the halls.

An additional board sheathing put upon all the cupolas.

The lumber house, west of the barn, finished in October. Its western section to be a poultry house.

The stone viaduct for the main sewer, in the west meadow, was finished in November.

**1875.** New and improved elevators made, and their walls sheathed.

A large bath-room in the basement of the 3d halls, north, was made.

A room for storage made, on north side of centre attic.

Oliver Edwards lot and dwelling, adjoining the S. Day lot, and near the foot-path entrance, bought. It contained about 25 square rods. Deed executed June 2d.

Smith and Prindle lot bought, with dwelling. It adjoined the Edwards lot on the west, and contained 23r. Deed executed June 5th.

The west half of the Samuel Day homestead land bought; 5a. 66½r. Deed executed June 7th. This includes the sites of the brick-yard and saw-mill.

The four old steam boilers taken out, and replaced by three larger ones.

The south storeroom in centre attic was made.

A brick sewer, for surface water, down the hill southeast of the hospital, was made; length 436ft., including branch to north catch-basin.

A brick sewer for surface water was made down the hill southwest of the pump house; length 118ft.

The old water pipes from Mill River to the front portico, about 1,600 ft., were taken up, and replaced by new ones.

The lean-to, adjoining the barn on the west, was erected.

A brick sewer for surface water, and opening into Mill River, was made across the Samuel Day lot and the Samuel Day homestead land; length about 570ft., calibre 2ft.

**1876.** A brick partition wall erected, from foundation to attic, between the bath-rooms and the small dormitories of the third halls south.

## 76 LUNATIC HOSPITAL AT NORTHAMPTON. [Oct.

All the woodwork, including floors and joists, of the bath-rooms, lavatories, and water closets of the three second halls, south, was taken out, and the rooms rebuilt.

The floor of the ironing-room was relaid.

Ground graded near the entrance of the foot-path, from the county road, and a row of elm and maple trees set from the main entrance to the Samuel Day house, near the bridge.

The Samuel Day homestead bought; 5a. 99r. Deed executed June 22d.

The largest barn on the Day homestead was taken down, and set up near the barn at the hospital.

A brick sewer for surface water was made down the hill east of the east grove; length 275ft., calibre 18 inches.

An iron fence erected from the entrance gate, along the line of the road, to the southeast corner of the S. Day homestead lot.

The fountain in front of the house was set up, but not put in operation.

877. The Enos Clark pasture, adjoining the hospital farm on the west, was bought; 90a. 45r. Deed executed February 9th.

The walls of the engine-house were raised three feet, and a new slated roof put on. The old roof was flat and tinned.

The embankment around the fountain was finished, and the fountain put in operation.

The original brick front portico, which had tried to tumble down for several years, was taken down and replaced by one of brown-stone.

A part of the bank of Mill River, in the west meadow, was ripped.

An iron fence was erected from the entrance gate along the road to the southwest corner of the farm, at the boundary of the land of John H. Fowle.

The John H. Fowle lot aforesaid was bought; 10a. 21r. Deed executed December 15th.

1878. Picket fence built across west boundary of farm, and along the county road, from the iron fence westward.

Ferris lot bought; 1½a., more or less. Deed executed April 4th.

An ice-house built at Mill River, a few feet north of the old one, which is still in use.

The stone wall of the north barnyard erected.

Hill and roadway graded on the south boundary of the Fowle lot, and the iron fence extended across part of the lot.

A concrete sidewalk laid from the entrance gate to the bridge at Mill River; and a similar walk from the entrance gate of the foot-path to the road at the top of the hill, on the front lawn.

A brick sewer for surface water put in on the south side of the county road, along the lower half of the hill. This sewer was extended to the top of the hill in 1879; calibre 2ft.

A brick sewer for surface water put in on the north side of the county road, from the main entrance nearly to the bottom of the hill; calibre 2ft.

The stonework of the bridge for a road into the west pasture, south of the paper mill, was built.

A severe freshet, on the 10th of December, carried away both ice-houses.

**1879.** One ice-house rebuilt in January and filled.

Justin Thayer peat-land bought; about 42r. Deed executed April 5.

The E. E. Denniston peat-land bought; 2a., more or less. Deed executed June 18.

An iron fence erected on the south side of the county road, from the northwest corner of the Samuel Parsons lot to the foot of the hill. This required much grading of the adjoining bluff.

A row of elm trees set on the Parsons lot, near the iron fence.

A hurricane, on the 16th of July, blew down about fifty trees on the farm.

The brick horse-barn was extended ten feet northwardly, its walls raised three feet, and a new, slated roof put on. The old roof was flat, and tinned.

The W. B. Welton lot, adjoining the Parsons lot on the south, was bought; 5a. 17r. Deed executed October 6.

The knolls at the eastern boundary of the Parsons and Welton lots were graded, and about 500 cart-loads of clay taken from them, was spread upon the garden.

A brick building, for a scullery and a storeroom for charcoal, was erected.

About three hundred feet of the river bank, in the west meadow, was rip-rapped.

**1880.** A wire screen was put upon the balustrade of the rotunda stairs in April.

Norway spruce trees set between the elms, on the south side of the hill down the road.

The western division of the main sewer, north of the barn, rebuilt with brick.

The stone bridge for the road into the Enos Clark pasture was extended about twenty-two feet westwardly.

In the autumn, the knolls on the eastern boundary of the Parsons lot were further graded, the road along that boundary relaid by the county commissioners, and the iron fence extended along the line of the road.

An ice-house, near the hospital, was erected.

**1881.** A fire-pump put into the engine-room, a subterranean reservoir constructed, hydrants placed in the centre building, and all the pipes necessary for the successful working of the pump were laid.

Two sections of the river bank in west meadow, an aggregate of four hundred and sixty-five feet, were rip-rapped.

A road was laid out from the north grove to the northeast part of the farm, near the ice-house at the pond on Mill River.

Concrete walks were laid to the barn and the horse-barn; also between the rear building and the west outside door of the north wing.



## 78 LUNATIC HOSPITAL, NORTHAMPTON. [Oct. '84.

**1882.** A new road, more remote from the hospital than the old one, was made through the grove west and north of the building.

A road to the west meadow made near the pump-house.

Road graded west of the sand-pit, adjoining the Fowle lot.

Ansel Wright peat-land bought; 100r., more or less. Deed executed May 24.

Copper lightning-rods put upon the hospital and the barns.

A concrete sidewalk laid from the front door across the lawn.

An ice-pond made in the west (E. Clark) pasture.

A building erected over the reservoir at the pump-house.

**1883.** Telephone put in, in February.

The houses and lots of Hiram Day, Ellen M. Day, and S. C. Lacore were bought. Deeds executed February 2d. These lots are at the southeast corner of the farm, near the bridge.

The floor of the sewing-room was relaid.

The new road through the west and north grove was graded and finished.

The bowling alley was taken down, and an excavation for the cellar of a large building for workshops and storage was begun, in June. The excavation was continued, and more than one-half of the cellar wall built, when the work was necessarily suspended for the season.

One hundred feet of the eastern section of the main sewer, which was made of stone, and a part of which was under the site of the proposed building, was taken up, and replaced by a cylindrical one of brick.

A wood-house was made by an addition to the scullery and coal-house.

A high wind, on the 28th of December, blew down the chimney of the pump-house.

**1884.** A new chimney, 65 feet 4 inches in height, was built at the pump-house.

Granite gate-posts at the north barnyard set up in May.

A fire-proof building for oils, paints, etc., was built.

The Day barn was raised and extended westwardly, by an addition of 40 feet, and a cellar 120 feet long and 40 feet wide, made beneath the whole. A poultry-house, connected with this barn, was also erected.

An addition of 40 feet was made to the cart-shed.

Work on the cellar for the new building, on the former site of the bowling alley, was resumed in May. The building was subsequently erected, and so far finished that the cellar and the first story were used for storage in October.

The ice-house at the pond on Mill River was taken down, and set up at the ice-pond in the west pasture.









THE CHURCH OF THE HOLY TRINITY

**HOSPITAL FOR INBANC.**  
**NORTHAMPTON, MASS.**

THIRTIETH ANNUAL REPORT

OF

THE TRUSTEES

OF THE

NORTHAMPTON LUNATIC HOSPITAL,

FOR THE

YEAR ENDING SEPTEMBER 30, 1885.

---

BOSTON :

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,  
18 POST OFFICE SQUARE.  
1886.



## OFFICERS OF THE NORTHAMPTON LUNATIC HOSPITAL.

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### TRUSTEES.

HENRY W. TAFT, Esq., . . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG.
HON. CHRISTOPHER C. MERRITT, . . . . .	SPRINGFIELD.
SILAS M. SMITH, Esq., . . . . .	NORTHAMPTON.
MRS. SARAH M. BUTLER, . . . . .	NORTHAMPTON.
MRS. SARAH A. WOODWORTH, . . . . .	CHICOPEE.
ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.

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### RESIDENT OFFICERS.

PLINY EARLE, A.M., M.D., . . . . .	SUPERINTENDENT.*
EDWARD B. NIMS, M.D., . . . . .	ASSISTANT SUPERINTENDENT.
DANIEL PICKARD, M.D., . . . . .	FIRST ASSISTANT PHYSICIAN.
DAVID G. HALL, M.D., . . . . .	SECOND ASSISTANT PHYSICIAN.
WALTER B. WELTON, . . . . .	CLERK.
JOHN MERCIER, . . . . .	FARMER.
DANFORD MORSE, . . . . .	ENGINEER.

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### TREASURER.

PLINY EARLE, . . . . .	NORTHAMPTON.*
------------------------	---------------

Office at the Hospital.

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### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	MALE SUPERVISOR.
LUCY A. GILBERT, . . . . .	FEMALE SUPERVISOR.
F. JOSEPHUS RICE, . . . . .	STEWARD.
MARY E. WARD, . . . . .	SEAMSTRESS.
IDA D. HYDE, . . . . .	LAUNDRESS.
GEORGE B. WALKER, . . . . .	BAKER.

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\* On the 1st of October, 1885, Dr. Earle retired from office and was succeeded, both as Superintendent and Treasurer, by Dr. Edward B. Nims, the former Assistant Superintendent.





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# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth  
and the Honorable Council.*

The fiscal year 1884-85 of the Northampton Lunatic Hospital having come to a close, the undersigned, in accordance with their duty as Trustees of that important charity, have the honor of hereby presenting to you the customary annual exposition of its operations.

Directing our attention primarily to the great objects for the attainment of which the institution was founded, namely, the custody, care and cure of the insane, the point most forcibly impressed upon us is the constant increase of the pressure upon the accommodations furnished by the hospital.

The building was designed for the accommodation of 250 patients. That number was not only attained, but exceeded, within twenty months from the time of its opening; and the daily average number for the second full official year, was 255. In the third year it rose to 314; in the ninth (1866-67), to 401; and in the nineteenth (1876-77), to 476. The opening of the new hospital at Worcester then gave us some relief, and the transfers to it reduced the daily average of resident patients to 442. Since that time there has been a constantly increasing annual average until it has now become within a small fraction of 476, or about the same as before the completion of the Worcester Hospital. Had there not been unusual exertions, during the past year, to procure the discharge of patients who might possibly be accommodated elsewhere, the number would have been still larger.

This brief historical sketch would appear to imply a very convenient quality of elasticity in the apartments for patients; but, practically, twenty-inch brick walls do not readily yield to internal pressure, and when the enclosed room has received a proper and wholesome number of inmates, every additional occupant is an encroachment upon the convenience, the comfort, and the health of the whole.

We look forward to some relief when the hospital at Westborough is opened. It is possible, also, that, under the law enacted in June last, some of our patients may be domiciled as boarders in private dwellings. But it appears to us that the time has come at which the true measure of relief should be adopted, by the erection, upon the premises, of a building for recent cases, as suggested by Dr. Earle and approved by us, in the annual report for 1881-82. We respectfully recommend this proposition to your serious consideration.

At the beginning of the fiscal year just closed, the number of patients in the house was, of men, 229; of women, 234; a total of 463. In the course of the year 66 men and 70 women, a total of 136, were admitted, making the aggregate number who were under the treatment or care of the institution during a part or the whole of that period, 599, of whom 295 were men and 304 women.

Sixty men and 63 women, a total of 123, were discharged from the hospital, and 16 men and 11 women, a total of 27, were released by death.

The number remaining in the hospital at the close of the official year was, of men, 235, and of women, 241; a total of 476. The whole daily average number resident was 475.94; being, for men, 233.47, and for women, 242.47. This number shows a considerable increase of patients in the course of the year, as it exceeds, by 12.89, the daily average for the official year 1883-84.

On the 30th day of May there were 490 patients in the house, being the largest number on any day within the year. Its opposite, or the least number on any day, was 457, on the 24th of October.

Of the 123 patients who left the hospital, the mental condition at the time of their discharge, as compared with the

same at the time of their admission, was, *recovered*, in 29; *much improved*, in 9; *improved*, in 29; and *unimproved*, in 26; while 3 are reported as not insane. The proportion of recoveries is not absolutely or relatively large; but they who have attentively read the annual reports of this institution for the last ten years, will have learned not only not to expect great numerical results in respect to cures, but the reasons for not expecting them. The Superintendent has several times heretofore discussed the subject of curability. He returns to it again, in his report for the past year, to which we refer all persons who are interested either in that subject or any other of the many points connected with insanity and its treatment in public institutions.

It will be remembered that the warm season of 1884 was a very active and busy period at the hospital, in the construction of buildings which appeared necessary for the convenient and economical working of the institution and to meet the enlarged operations of its agricultural department. No new structures of the kind have been made this year; but considerable work has been done in finishing those of last year, and grading and otherwise improving the grounds around them. The large new cellar of the barn which was raised and extended last year, has proved to be a very convenient and valuable adjunct to the accommodations for the live stock of the farm. It has been improved, in the course of the summer, by a thick floor of concrete. The open court within the wings and the main edifice of the storehouse, and other spaces around that building, together with the pathway between it and the rear door of the hospital, have also been laid with similar concrete.

The cellar beneath the storehouse, which, as will be recollected, was intended for the storage of the vegetables to be consumed in the house, has proved successful beyond our expectations. As its upper space of three feet is above the surface of the outside grounds and is furnished with windows, there was some doubt that it would be sufficiently warm, in the coldest season, without artificial heat. Hence provision was made for the easy introduction of steam, should that become necessary. The winter was long and unusually cold, and consequently was a thorough test of the cellar's capabili-

ties in regard to temperature. It kept the mercury in the thermometer standing, almost as constantly as if it were immovable, at thirty-eight degrees of Fahrenheit; and at no time was it below thirty-six degrees. This is a range of temperature which, for the preservation of vegetables, could hardly be bettered. Artificial heat was not needed, and the unconsumed vegetables came out, in the spring, in far better condition than ever before at this hospital.

*W* A pasture for ~~few~~ cows and young cattle, within a convenient distance, having long been needed, we purchased one in June. It is about one and a half miles from the hospital, adjoining the highway to Easthampton, and contains a little more than twenty-three acres. This raised the quantity of land belonging to the institution to about three hundred and sixty-five acres.

Considerable expense has been laid out, this year, in the reclamation of rocky and wet places upon the farm, by the removal of the stone, and the laying of under-drains and culverts.

The hospital has *earned*, in the course of the year, by the charges for the board of its inmates, \$86,549.99. The sums charged for the three different classes of patients were as follows :—

For State patients,	.	.	.	.	.	\$26,201 04
town patients,	.	.	.	.	.	44,193 97
private patients,	.	.	.	.	.	16,154 98
Total,	.	.	.	.	.	<u>\$86,549 99</u>

That portion of the earnings which accrued during the last quarter of the year has not, of course, been paid, but will appear in the *income* of the next ensuing year.

The report of the Treasurer having been received and audited, is hereto appended. The balances of the accounts show, that on the 30th of September, 1885, the end of the official year, there were :—

The reserve fund,	.	.	.	.	.	\$10,000 00
And cash assets available for future use,	.	.	.	.	.	27,755 09
Total,	.	.	.	.	.	<u>\$37,755 09</u>
And liabilities (bills payable),	.	.	.	.	.	5,935 82
Balance in favor of the hospital,	.	.	.	.	.	<u>\$31,819 27</u>

Beides these ready assets, the institution has on hand the representatives of cash, in a quantity of *purchased* provisions and supplies, of which the estimated value is \$14,762.87, together with the hitherto unconsumed products of the farm.

In pursuance of the Legislative Act of 1884, we appointed, in the early part of December of that year, Dr. Emily F. Wells to a position upon the medical staff of the hospital. She entered upon the duties of the office on the 1st of January of the current calendar year, and has hitherto performed them to our satisfaction. No other change was made, in the course of the official year, in the corps of executive officers. Of the subordinate officers, the seamstress, Miss Mary Ward, after long and faithful service, has left, and Gertrude C. Arnold has been appointed in her place.

At the present time of writing, the one important change in the administration of the hospital, since the date of our last report, is the retirement of Dr. Earle, whose resignation has finally been accepted by the Board; and, upon its acceptance, the following resolutions were unanimously adopted and entered upon the records:—

*Resolved*, That in accepting the resignation of Dr. Pliny Earle, Superintendent of this hospital, the Trustees have reluctantly yielded to the conviction that his advancing years and impaired health demand rest, and relief from the responsibilities and labors of his position.

Dr. Earle has been at the head of this institution twenty-one years, and, during nearly all that period, has also been its Treasurer. In its management he has combined the highest professional skill and acquirement with rare executive ability. By his thorough knowledge, his long experience, his patient attention to details; by his wisdom and firmness, his absolute fidelity to duty, and devotion to the interests of the hospital, he has rendered invaluable services to the institution, and to the community which it serves.

The Trustees are deeply sensible of the assistance which he has given them in the discharge of their duties, and follow him, in his retirement, with the assurance of their highest respect and esteem.

*Resolved*, That the Trustees indulge the hope that Dr. Earle will continue to make his home in this institution, that they may continue to profit by his counsels; and they will provide that his rooms shall always be open and ready for his use.



## 12 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

The vacancy thus created has been filled by the election of Dr. Edward B. Nims to the office of Superintendent. Dr. Nims has been connected with the hospital nearly seventeen years, and from their knowledge of his character and qualifications, the Trustees are confident that, under his superintendence, the efficient administration of the affairs of the hospital will be maintained.

Dr. Earle withdrew and Dr. Nims succeeded him in office, both as Superintendent and Treasurer, on the 1st of October, current, the beginning of the new official year.

HENRY W TAFT,  
LYMAN D. JAMES,  
CHRISTOPHER C. MERRITT,  
SILAS M. SMITH,  
SARAH M. BUTLER,  
SARAH A. WOODWORTH,  
ADAMS C. DEANE,

*Trustees.*

NORTHAMPTON, Oct. 8, 1885.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1885.\*

---

Superintendent and physician, . . . . .	per year, \$2, 500 00
Assistant superintendent and physician, . . . . .	" 1,500 00
First assistant physician, . . . . .	" 900 00
Second assistant physician, . . . . .	" 700 00
Third assistant physician, . . . . .	" 600 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk-hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 20 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 14 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 14 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 58 33
Assistant steward, . . . . .	" 35 00
Attendants (male) (7), . . . . .	" 30 00
Attendant (male) (1), . . . . .	" 28 00
Attendants (male) (2), . . . . .	" 25 00
Attendant (male) (1), . . . . .	" 23 00
Attendants (male) (2), . . . . .	" 21 00
Attendant (female) (1), . . . . .	" 20 00
Attendants (female) (11), . . . . .	" 18 00
Attendant (female) (1), . . . . .	" 16 00
Attendant (female) (1), . . . . .	" 15 00

\* On the 1st of October, 1885, the office of assistant superintendent was abolished, and the salary of the first assistant physician was placed at \$1,200.

# 14 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Attendants (female) (2), . . . . .	per month,	\$14 00
Night-watch (female), . . . . .	"	18 00
Housework, centre (female) (2), . . . . .	"	15 00
Cook (female), . . . . .	"	16 00
Assistant cook (male), . . . . .	"	15 00
Assistant cooks (female) (2), . . . . .	"	15 00
Assistant cook (female) (1), . . . . .	"	14 00
Farmers' dining-room (female), . . . . .	"	15 00
Housework, rear building (female), . . . . .	"	9 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Assistant engineer, . . . . .	"	32 00
Night engineer, and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	28 00
Farm hands (5), . . . . .	"	28 00
Farm hand (1), . . . . .	"	25 00
Farm hand (1), . . . . .	"	23 00

In the warm season we generally hire some farm hands by the day. This year we have four, at \$1.50 per day, without board. They work mostly on improvements of the farm.

## INVENTORY OF STOCK AND SUPPLIES.

ON HAND SEPT. 30, 1885.

Live-stock on the farm, . . . . .	\$6,027 00
Produce of the farm on hand, . . . . .	8,411 08
Carriages and agricultural implements, . . . . .	3,590 00
Machinery and mechanical fixtures, . . . . .	8,820 00
Beds and bedding in inmates' department, . . . . .	12,580 00
Other furniture in inmates' department, . . . . .	4,850 00
Personal property of State in Superintendent's department,*	9,125 00
Ready-made clothing, . . . . .	2,259 72
Dry goods, . . . . .	3,077 59
Provisions and groceries, . . . . .	3,092 56
Drugs and medicines, . . . . .	625 00
Fuel, . . . . .	5,408 00
Library, . . . . .	1,000 00
Paints and oils, . . . . .	300 00
Total, . . . . .	<u>\$69,115 00</u>

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other apartments.

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as Treasurer of the hospital, for the fiscal year ending with the 30th of September, 1885. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

## ASSETS.

Three hundred and sixty-four acres of land,	\$14,000 00
Hospital building, . . . . .	250,000 00
Farm house, \$2,000; brick house, \$2,000, . . . . .	4,000 00
Three dwellings (H. Day lot), . . . . .	1,000 00
Storehouse and shops, . . . . .	16,000 00
Two barns, . . . . .	5,500 00
Horse stable, . . . . .	2,000 00
Scullery and wood-house, . . . . .	700 00
Lumber-house, . . . . .	1,200 00
Pump-house, . . . . .	1,000 00
Cart shed, . . . . .	500 00
Coal-house, . . . . .	400 00
Piggery, . . . . .	200 00
Fire-proof for oils and paints, . . . . .	500 00
Two ice-houses, . . . . .	600 00
	<hr/>
	\$327,600 00

## PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' report, . . . . .	\$69,115 95
Reserve fund, . . . . .	10,000 00

## RECEIPTS.

Cash on hand Sept. 30, 1884, . . . . .	\$1,765 59
Received from the State treasurer, . . . . .	26,028 29
from towns, . . . . .	46,737 72
from individuals, . . . . .	15,819 43
from sales, . . . . .	2,346 75
from temporary loan, . . . . .	1,500 00
from interest, . . . . .	591 31
	<hr/>
	\$94,789 09

## PAYMENTS.

1st. Salaries and labor, . . . . .		\$28,725 63
2d. Provisions and supplies, viz.:—		
Meats of all kinds, . . . . .	\$6,056 39	
Fish of all kinds, . . . . .	1,238 67	
Fruit and vegetables, . . . . .	1,446 92	
Flour, . . . . .	3,707 00	
Grain and meal for table, . . . . .	670 58	
Grain and meal for stock, . . . . .	2,172 02	
Tea, coffee and chocolate, . . . . .	643 09	
Sugar and molasses, . . . . .	1,999 22	
Butter and cheese, . . . . .	4,716 23	
Salt and other groceries, . . . . .	2,830 99	
All other provisions, . . . . .	116 28	
		<hr/>
		25,597 39
3d. Clothing, . . . . .		4,489 03
4th. Fuel and lights, . . . . .		7,168 27
5th. Medicines and medical supplies, . . . . .		1,701 77
6th. Furniture, beds and bedding, . . . . .		2,719 15
7th. Transportation and travelling expenses, . . . . .		353 93
8th. Ordinary construction and repairs, . . . . .		1,667 93
9th. Extraordinary construction and repairs, . . . . .		8,766 11
10th. Real estate, . . . . .		700 92
11th. Miscellaneous expenses, including—		
1. Farm stock, . . . . .	\$785 00	
2. Farm supplies, . . . . .	3,349 49	
3. Water, . . . . .	750 00	
4. Minor expenses, . . . . .	696 10	
5. Contingencies, . . . . .	1,228 82	
6. Temporary loan, . . . . .	1,500 00	
		<hr/>
		8,309 41
Total expenditures, . . . . .		<hr/>
		\$90,199 54

## LIABILITIES.

Salaries and wages due Oct. 1, 1885, . . . . .	\$3,931 65
Miscellaneous bills due, . . . . .	2,004 17
	<hr/>
	\$5,935 82
Due the institution for board, Oct. 1, 1885,—	
from State, . . . . .	\$6,842 03
towns, . . . . .	11,944 10
individuals, . . . . .	4,279 47
interest, . . . . .	100 00
Due from Treasurer, Sept. 30, 1885, . . . . .	4,589 55
	<hr/>
	\$27,755 15

# 18 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

## SUMMARY.

Total receipts, . . . . .	\$94,789 09
Total payments, . . . . .	90,199 54
Cash on hand Sept. 30, 1885, . . . . .	<u>\$4,589 55</u>
Total liabilities, . . . . .	\$5,935 82
Total debts due the institution, . . . . .	27,755 15
Total expenditures, including new buildings, . . . . .	90,199 54

Dividing this sum by 475.94, the average number of patients,  
 we have the average expenditure per patient, . . . \$189.518  
 And the average weekly expenditure per patient, . . . 3.644

Deducting from the total expenditures, . . . . .	\$90,199 54
The extraordinary expenses, . . . . .	10,967 03

We have the current expenses, . . . . . \$79,232 51

Dividing \$79,232 51 by 475.94, the average number of  
 patients, we have the average expenditure per patient, . . \$166.475  
 Making the average weekly expenditure per patient, . . . 3 201

Adding to the current cash expenditure, . . . . .	\$79,232 51
The decrease of personal assets, . . . . .	1 53

We have the apparent *necessary* cost for the year, . . \$79,234 04

Dividing \$79,234.04 by 475.94, the average number of pa-  
 tients, we have, as the annual cost of each patient, . . \$166.479  
 Making the average weekly cost of each patient, . . . 3.201

When making large disbursements for the construction of  
 buildings, the Treasurer advanced, for fifteen days and with-  
 out interest, the sum of fifteen hundred dollars on the hos-  
 pital's account. This is entered as a temporary loan.

PLINY EARLE, *Treasurer.*

NORTHAMPTON, Oct. 8, 1885.

We have examined, as auditors, the accounts of the Treasurer, and found a satis-  
 factory voucher for every entry.

ADAMS C. DEANE.  
 LYMAN D. JAMES.

NORTHAMPTON, Oct. 8, 1885.

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

Seasons demand their specific labors, and days come to us laden with their incumbent duties. Another official year of this institution having elapsed, it devolves upon me once more to make the annual record, and to present for your information a summary of the most important events and circumstances which constitute its history.

The usual schedule of the numerical records which show the movement of the population of the hospital, and the results of treatment of its inmates is presented in the following table:—

### 1. General Statistics, 1884-85.

	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1884, . . . . .	229	234	463
Admitted within the year, . . . . .	66	70	136
Whole number of cases within the year, . . . . .	295	304	599
Discharged within the year, . . . . .	60	63	123
Viz.: as recovered, . . . . .	17	12	29
much improved, . . . . .	4	5	9
improved, . . . . .	12	17	29
unimproved, . . . . .	10	16	26
not insane, . . . . .	1	2	3
Deaths, . . . . .	16	11	27
Patients remaining Sept. 30, 1885, . . . . .	235	241	476
Viz : supported as State patients, . . . . .	83	74	157*
town patients, . . . . .	119	140	259
private patients, . . . . .	33	27	60
Number of different persons within the year, . . . . .	289	299	588
Persons admitted, . . . . .	63	67	130
recovered, . . . . .	17	12	29
Daily average number of patients, . . . . .	233.47	242.47	475.94

\* On the 1st of October, 1885, two men and one woman were transferred from State to town charge. Hence the new year will begin with

State patients, 81 + 73 = 154.

Town patients, 121 + 141 = 262.



At the beginning of the year there were 463 patients (persons) in the house, 229 of whom were men and 234 women. The number of *patients* admitted within the year was, of men, 66, and of women, 70; making a total of 136. Hence the whole number of *patients* in the house, in the course of the year, was 599, of whom 295 were men and 304 women.

Among the admissions were 3 men and 3 women, a total of 6, who were admitted twice each. The 6 persons, therefore, counted as twelve *patients*. By subtracting their last admissions the whole number of *persons* admitted is obtained. This was, of men, 63, and of women, 67; making a total of 130. But among these were 5 persons — 3 men and 2 women — who were in the house at the beginning of the year, but who had been subsequently discharged and readmitted, within the year. By subtracting these, we find there were 60 men and 65 women, a total of 125, who were not in the house at the beginning of the year. Adding these to those who *were* here at the beginning of the year, we obtain the number of *persons* who were patients at any time in the course of the year. That number is 588, of whom 289 were men, and 299 women.

Of the 6 persons — 3 men and 3 women — who were admitted twice each, only one — a man — was discharged recovered on the first of those admissions. Of the 5 persons — 3 men and 2 women — who were here at the opening of the year, but were afterwards discharged and readmitted, no one was discharged recovered.

Of the 130 persons admitted, not less than 34, of whom 12 are men and 22 women, have been inmates of the hospital more than once each. Eight men and 14 women have been admitted twice each; 2 men and 4 women, three times each; 1 man and 1 woman, four times; 2 women, five times; 1 man, twelve times; and 1 woman, sixteen times.

Of the 22 persons who have been admitted twice each, 1 man and 4 women were discharged recovered on their first admissions; 2 women were discharged much improved; 5 men and 5 women, improved; and 2 men and 3 women, unimproved.

Of the 6 who have been admitted three times each, 1 woman had been discharged recovered on both of her former

admissions; 1 man as much improved both times; 1 woman as improved both times; 2 women as improved once each and unimproved once each; and one man as unimproved both times.

Of the 2 who have been admitted four times each, both were discharged recovered, on each of their three former admissions.

Of the 2 women who have been admitted five times each, one was discharged recovered twice and improved twice; and the other as recovered once, much improved once, and improved twice.

The man who has been admitted twelve times, had been discharged recovered four times, much improved once, and improved six times; and the woman who has been admitted sixteen times, had been discharged recovered eleven times, much improved once, and improved three times. They were brother and sister. The latter was admitted twice within the year.

The whole number (136) of admissions was precisely the same as in the next foregoing year; but the number of *persons* admitted was not so large by one as in that year.

The largest number of patients in the house on any day within the year, was 490, on the 30th of May; and the smallest number on any day was 457, on the 24th of October.

The daily average number of patients resident in the hospital exceeded that of the next preceding year by but a small fraction less than 13.

#### STATUS OF PATIENTS.

Basing the discrimination upon the sources of support, the patients of this hospital are, for business purposes, divided into three classes,—State patients, town patients and private patients.

Of the 136 patients admitted in the course of the year, the expense of support of 43 was charged, when they entered the hospital, to the Commonwealth; that of 74 to cities and towns, and that of 19 to relatives, friends or guardians of the patients. The relative proportion of State patients was about 25 per cent. larger, and that of town and of private patients was smaller, than in the next preceding

year. Subsequently to admission, four changes were made in regard to responsibility for support. One ward of the State became a town charge; and three town patients were transferred, one to the beneficence of the State and two others to that of their relatives.

Including the 27 patients removed by death, the whole number discharged within the year was 123. Forty of them were beneficiaries of the Commonwealth, 65 were the wards of cities and towns, and 18 were supported by private funds.

Of the 476 patients who remained in the hospital at the close of the year, the cost of support of 157 is charged to the State and that of 259 to cities and towns, while the expenses of 60 are paid from either their own property or the private funds of other people.

The weekly average number of patients in each of the three classes, who were in the house in the course of the last two official years, is indicated in the subjoined table, — the averages being calculated upon the totals of the numbers present on the evenings of all the Saturdays in the year: —

	1883-84.			1884-85.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . .	83.37	71.73	155.10	82.29	72.15	154.44
Town patients, . .	113.88	137.35	251.23	118.48	143.10	261.58
Private patients, . .	29.87	26.19	56.06	32.62	27.20	59.82

This table is introduced, as it has been in several preceding years, chiefly for the purpose of demonstrating the gradual but constant diminution, in both the number and the relative proportion, of the wards of the State; and the equally constant augmentation of those of the wards of cities and towns. It will be perceived that the changes still continue, although that of the State patients is less than in several former years. The increase of town patients for the year is ten.

The weekly average of all the patients in the house was 475.84, which is less, by the fraction *one-tenth*, than the daily average.

## RECOVERIES.

*Judging in accordance with our standard of mental health, and our opinions in regard to the extent to which, in individuals, that standard is modified by temperament, idiosyncrasy, education and habits,* 29 of the discharged patients, of whom 17 were men and 12 women, had regained their natural mental condition to an extent which warranted a record of recovery. Fourteen of the men and 11 of the women had never before been under treatment at any institution, and 2 were here on their first admission, but had been patients at the Worcester Hospital, from which one of them had been discharged recovered.

Two men and one woman were here on their second admission. The woman and one of the men had been discharged as recovered on their first admission, and the other man as much improved.

One man was on his third admission, having previously been twice discharged as recovered. There was an interval of twenty years between his first discharge and his second admission. In the course of this long period he had pursued his usual avocation and supported a family, although he had suffered some slight attacks of the disorder not sufficiently severe to require his removal to a hospital.

No patient was discharged as recovered twice within the year, and consequently the number of *persons* recovered the same as that of *patients* recovered. The new statistical tables have already had an important effect, in one respect, upon the reported recoveries at the institutions in Massachusetts. Since their adoption, there have been very few instances in which the same person has been discharged recovered more than once in the course of the year covered by any one report, and so long as they continue in use there is little probability that any person will be credited with seven recoveries in a year—a distinction which had been accorded to at least one person in the antecedent history of one of the hospitals.

One of the men discharged recovered in the early part of March, was readmitted after an absence of a little more than five months, and is still here.

Among the recoveries there was one case of special interest, in consequence of its prolonged duration. The patient, a woman, was originally admitted at the Worcester Hospital, in March, 1871, and was transferred to Northampton in May, 1872. For several years, at frequently recurring periods, she was the most dangerous patient in the female department. It was not safe, at these times, for an attendant to enter her room alone. At length the frequency of the periods and the intensity and violence of the excitement began to diminish. Slowly but constantly, from year to year, there was an evident improvement, until at length she appeared to be well, and after a hospital life of more than fourteen years returned to her friends.

Of the patients discharged recovered, 8 were supported at the hospital by the State, 17 by cities and towns, and 4 by private funds.

#### DEATHS.

Notwithstanding the very low rate of mortality in 1883-84, the increase in the number of deaths within the year just closed is comparatively small. Indeed, there has now been a period of three consecutive years during which the death-rate has been materially below the average.

The whole number of deaths was 27. Sixteen of them were of men and 11 of women. Although phthisis—or consumption—does not, as usual, stand most prominent among the diseases which terminated fatally, yet the number of its victims is not exceeded by that of any other. There were six each of it and of pneumonia. The tendency to the disease last mentioned was observable throughout the winter, and the number of cases of it in the house probably exceeded the aggregate number of the five next preceding years. As a consequence of its prevalence, the mortality from diseases of the lungs was much greater than from those of the brain and nerves, whereas the reverse is ordinarily true. Of the deaths not already mentioned, four are recorded as the result of organic disease of the brain, two of apoplexy, two of senile debility, and one each of five other diseases.

To these must be added one from suicide, and one which occurred, accidentally, upon a railroad.

One of the men, when walking out in company with an attendant and other patients, escaped and went to his home, about ten miles distant, where he remained over night. On the following morning he started to return to the hospital, on foot and alone, as he had once before returned under similar circumstances. Instead of taking the highway for carriages, he took the railroad, which has a double track. On his way, perceiving a train approaching him in front, on the track upon which he was walking, he stepped aside, upon the other track, and was almost immediately struck and killed by a train going in the opposite direction, which he evidently had not perceived.

The suicide was by a woman whose propensity in that direction was not known or suspected. She effected her object by strangulation, procured by semi-suspension in her room, in the course of her second night in the hospital.

Persons familiar with our previous reports will remember that the question of the comparative mortality of the sexes in the hospital has not infrequently been discussed. It is worthy of continued observation and mention. In no less than fifteen of the last eighteen years, both the actual and the proportionate number of deaths of men exceeded those of women. In the course of the last year, 290 different men were under treatment, and 16 of them died. This is equal to 5.51 per cent. The number of different women was 299, of whom 11, or 3.68 per cent., died. The proportionate mortality of women was only about two-thirds of that of men. In other words the rate was such that, with an equal number of patients of the two sexes, then, during a period in which 100 men would die, there would be but 67 (66.78) deaths of women. Shattered constitutions and profound disease of the brain are much the most frequent in the naturally stronger sex.

Of the 27 patients discharged by death, 14 were wards of the Commonwealth, and 11 of towns and cities, while only 2 were supported by individuals or by private funds.

A succinct numerical history of the mortality among the patients of the hospital, from the time of its opening, is included in the subjoined table:—

*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1885.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	18	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	460.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67

By an inspection of the table it will be seen that the proportion of deaths, calculated upon the daily average number of patients, was smaller than in eighteen of the foregoing years, and larger than in only eight. Calculated upon the whole number of patients treated, it was smaller than in twenty-one years, and larger than in only five.

It requires but a mere general and transient glance at the table to reveal the fact of a pretty largely diminished mortality in the course of the hospital's progress. For the purpose of giving a more definite idea of this diminution, the percentages of deaths in different periods are given below, as they have been in some former reports.

As compared with the whole number of patients treated, the mean or average death-rate was :—

For the whole period of twenty-seven years, . . .	5.70 per cent.
For the first thirteen years, . . . . .	6.49 “
For the last thirteen years, . . . . .	5.02 “
While for the year just closed it was only . . .	4.51 “

As compared with the daily average number of patients in the house, it was :—

For the full period of twenty-seven years, . . .	7.63 per cent
For the first thirteen years, . . . . .	9.05 “
For the last thirteen years, . . . . .	6.46 “
While for the year just closed it was only . . .	5.67 “

The last method of calculating the ratio of deaths is the most accurate. The results, as given by it, demonstrate that, having a fixed and constantly equal number of patients in the house, then, during a period in which, with a death-rate of the first thirteen years, 905 patients would die, only 646 patients would die if the rate were that of the last thirteen years; or, as otherwise illustrated, where 100 patients died in the first period, only 71 died in the last.

#### WORSHIP AND ENTERTAINMENT.

Religious exercises were more or less regularly performed at some of the institutions for the insane anteriorly to the year 1830; but the plan of frequent gatherings of the patients on the evenings of secular days, for instruction, entertainment and amusement, is almost wholly the outgrowth of the last forty-five years. Beginning in an occasional exercise, and as a method of relieving the tedium of the monotony of the wards between the hours of supper and bedtime, it was gradually more and more developed, and more and more widely adopted, until it has now become an important, if not an almost necessary part of the system of treatment of the insane. In the annual reports of this institution during the last twenty years, the subject has been discussed, under its different aspects and relations, to such an extent as to render much enlargement upon it at the present time unnecessary.

In the report one year ago, the opinion was given that, at public institutions where the assemblies of patients for the purposes here indicated are so frequent as they are here, the most nearly constant method of entertainment should be



reading—the matter read not to be confined to any special subject or to any form or department of literature, but to take the widest range and comprise judicious selections from the whole. This view of the subject has met with approbation in at least one instance. A well-educated lady of literary tastes, who was formerly a patient in this hospital, gives her endorsement, as follows, in a letter recently written to one of her correspondents here :—

“I am especially interested in Dr. Earle’s report, and his opinion of the exercises in chapel. I have reason to remember the readings gratefully, for not only were they of benefit at the time, but from them I gained ideas that have been of great value ever since. I should think there could be no question but that the readings should be by far the most frequent form of instruction and entertainment.”

The subjoined schedule contains an account of the exercises in the course of the last official year, together with the number of days or evenings devoted to each :—

#### EXERCISES IN THE CHAPEL.

1. ON THE SABBATH,—	
Divine worship, . . . . .	52 days.
2. ON SECULAR EVENINGS,—	
(a) <i>Reading and Recitations, opened and closed with music :</i>	
The Bible, . . . . .	17 “
The Bible and selections of prose, . . . . .	3 “
The Bible and selections of poetry, . . . . .	31 “
The Bible and recitations, . . . . .	2 “
Miscellaneous selections of prose, . . . . .	118 “
Miscellaneous selections of poetry, . . . . .	21 “
Miscellaneous selections of prose and poetry, . . . . .	31 “
Poetry and recitation, . . . . .	1 “
Recitations of poetry, . . . . .	1 “
(b) <i>Lectures :—</i>	
On Biblical subjects, . . . . .	2 “
Method of teaching the blind, . . . . .	1 “
(c) <i>Other Entertainments :—</i>	
Pictures shown with the stereopticon, . . . . .	7 “
Concert, . . . . .	2 “
(d) <i>Social Assemblies :—</i>	
Quadrille parties, . . . . .	19 “
No assembly, . . . . .	57 “
Total, . . . . .	365 days.

This list shows that only upon 57 days in the course of the year was there no assemblage of the patients for the purposes indicated. It consequently follows that the number of days upon which they were thus convened was 308. This number is not so large as it has usually been in bygone time, for the simple reason that, during the last two years, the exercises have been omitted on the evenings of the reception days for visitors — two each week — in July, August and September. During the last twenty official years, the average number of days upon which the patients were thus brought together is 331. The largest annual number of times was 349, in the official year 1868–69, and the smallest 290, in 1883–84.

It is confidently believed that — with perhaps the exception of a very few institutions at which there is a constant gathering for morning and evening prayers, and where there are few or no miscellaneous exercises — no other hospital has so large an average as that just mentioned. There are some at which the assemblies are regular and constant during nine months of the year, but are wholly discontinued during the other three months. They may have as large an average for their *season*, but necessarily they cannot have for the year. The average attendance at these gatherings, for the year just ended, is 283; the largest, 310.

While thus chronicling, for the last time, the annual history of this department of the operations of the hospital, it appears incumbent upon me once more to recur to the importance of these exercises, as a factor of practical value in the administration of the affairs of an institution for the insane. Their influence for good may be summarily stated as follows: —

*First.* They obviate that listless, lifeless, oppressive monotony and tedium of the wards which formerly prevailed in such establishments, and which will inevitably prevail without them.

*Second.* They operate as a disciplinary power over both the body and the mind. The gathering together in the wards, the orderly progress to and from the place of meeting, and the quiet sitting during the exercises (always excepting the dances — and even these are practical lessons in *order*),

cannot fail more or less to operate as not only temporary but permanent suppressors of the eccentricities of action, the vagaries of conduct, and the tendencies to violence. Thus self-control comes in the place of waywardness, and order and quietude in the place of disorder and noise.

*Third.* They are a mental stimulus. As they teach physical order, so teach they order of thought. They offer to all a mental pabulum which is received and appropriated to an extent varying in degree according to the mental impairment; but, even to the most apathetic, operating, to some extent, as a conservator of what little mental power still remains, and to many, of better preserved or larger intellect, as an invigorator and a strengthener. Nothing is more certain than, other things being equal, the inmates of a hospital at which these exercises are a component part of treatment, will always appear less demented, less stupid, more intelligent and quicker and brighter in intellect, than in one where they are not.

*Fourth.* As they conduce to the general quietude of the house so do they largely contribute to the satisfaction and the contentment of its inmates, as well as to their regard for the officers who officiate at them. On the part of many of the patients there is a full appreciation of the efforts which are made for their entertainment and amusement.

*Fifth.* They give to the Superintendent an opportunity, which has not infrequently been taken advantage of at this hospital, for instruction and counsel to both attendants and patients, in regard to their relations to each other, and for any other remarks which may conduce to the improvement of the institution, or the harmony and general welfare of its inmates.

#### FARM.

In a commonwealth the public charitable institutions are the property of the organized citizens of that commonwealth. They are instituted *by* the people, and *for* the people. Hence I have always regarded it as most proper that an annual report from this hospital should be intended, in the character of its contents, for the people, and not for any special profession, denomination, or class of persons which may exist among them. I have consequently en-

deavored to portray the institution as it is, and have not attempted to make it, specially, a *medical* report. The hospital is in a section of the State which is largely agricultural, and draws a considerable proportion of its patients from the people engaged in that industry. Therefore, as well as from the fact that it is a very important department, both economic and hygienic, of the establishment, a due prominence has always been given to the farm.

Perhaps no season since the opening of the hospital has been more favorable for all the varieties of vegetable product which it has been thought judicious to cultivate here, than that which is now drawing towards its close; and although somewhat more favorable for some of them than for others, as, in the nature of things, every season must necessarily be, yet, in regard to no one was the crop a failure, and a fair harvest was gathered even from those which were least successful.

With the exception of a slight drought, which diminished the growth of rowen on some of the upland which was earliest mowed, the most inveterate scowler at the weather could find no food for grumbling at the past summer because of influences unfavorable to the production of hay. The first growth of grass produced 197½ tons, a quantity which exceeds, by 22 tons, that of the first growth of any former year, and is larger, by 23 tons, than the whole crop harvested in 1884.

The after-growth yielded a fraction over 54 tons, — a quantity never before equalled. Thus the whole product was 251½ tons.

Inasmuch as all the milk consumed by the inmates of the hospital is produced on the premises, the quantity of hay grown upon the farm becomes an economic consideration of primary importance. The decision to purchase no more milk, but to make the establishment self-supporting in this respect, was made in the summer of 1864. It may not be uninteresting to learn the development of the farm, in this direction, in the course of the last twenty-one years. The following schedule shows the quantity of hay annually gathered upon the premises throughout that period, unimportant fractions of tons being omitted: —

1864, estimated, . . . 40 tons.	1875, weighed, . . . 100 tons.
1865, " . . . 62 "	1876, " . . . 111 "
1866, " . . . 42 "	1877, " . . . 154 "
1867, weighed, . . . 82 "	1878, " . . . 179 "
1868, " . . . 86 "	1879, " . . . 144 "
1869, " . . . 91 "	1880, " . . . 154 "
1870, " . . . 74 "	1881, " . . . 219 "
1871, " . . . 75 "	1882, " . . . 170 "
1872, " . . . 91 "	1883, " . . . 197 "
1873, " . . . 84 "	1884, " . . . 174 "
1874, " . . . 120 "	1885, " . . . 251 "

This gradual increase is a consequence, in part, of additional land acquired by purchase, and, in part, of the constantly improving fertility of that which was owned from the beginning. The growth upon the original farm has increased at least threefold since 1864.

It will be perceived that the home product of hay, in the earlier years of the period, was entirely inadequate to the support of a large dairy. This deficiency was supplied by the purchase of standing grass, and harvesting it. In 1867 the farm yielded 82 tons, and the purchased grass 140 tons; and in 1869, the harvest on the premises was 91 tons, and that from outside land 130 tons. We have paid, when the market value of hay was \$25 a ton, as much as \$1,700, in one year, for standing grass; and for eight or ten years the average cost was probably \$1,400. This year we paid \$100.10; and henceforth the farm will probably furnish essentially the whole of the hay required for home consumption.

Of milk, the whole product in the course of the official year was 26,156 gallons, which is a daily average of  $71\frac{2}{3}$  gallons. But only one-third of this quantity is placed in the list of products; that being the estimated proportion derived directly from the farm, by pasturage, while the remaining two-thirds is supposed to be derived from purchased meal, and from the other home growths, as hay, roots, etc., for the value of which the farm is already credited in the list. The reported product of milk in 1865 was 13,836 gallons; and in 1866, 15,327 gallons. The proportionate increase since that time

pretty largely exceeds the similar increase in the number of inmates of the hospital.

Last year, the reported product of the orchards was 1,153 barrels of apples suitable for domestic use, and 100 barrels of cider. As the report was made before the close of the harvest, this quantity was, in part, an estimate. But the estimate was too low. Of apples, the actual quantity was not less than 1,250 barrels; and of cider, 118 barrels. As this is not the "bearing year" for the orchards, the expected product was necessarily small. The harvest, however, is now estimated at 357 barrels, which is sufficient to obviate the necessity of a large purchase.

In a former report it was stated, and the reasons therefor given, that the raising of swine has always been one of the leading agricultural interests of the institution. The "Hospital breed" has always been a popular one in the neighboring towns, and consequently there has been an outside market for pigs; while, until within recent years, there has been a sufficient market in the house for all the pork, ham, and lard which could be produced. The subjoined list shows the growth of this industry during the last twenty-one years.

*Pork Raised upon the Farm.*

1865, . . . 6,265 pounds.	1876, . . . 12,467 pounds.
1866, . . . 5,448 "	1877, . . . 13,605 "
1867, . . . 7,416 "	1878, . . . 14,451 "
1868, . . . 7,791 "	1879, . . . 13,569 "
1869, . . . 8,469 "	1880, . . . 14,729 "
1870, . . . 7,447 "	1881, . . . 15,610 "
1871, . . . 7,863 "	1882, . . . 14,414 "
1872, . . . 11,366 "	1883, . . . 15,612 "
1873, . . . 10,511 "	1884, . . . 10,192* "
1874, . . . 12,024 "	1885, . . . 17,544 "
1875, . . . 12,693 . "	

\* Quantity diminished by disease.

The increase, as will be seen, has been nearly threefold.

Forty-eight hogs were fattened and slaughtered in the course of the past year, the aggregate weight of the dressed carcasses of which was, as mentioned above, 17,544 pounds.

The heaviest weighed 598 pounds; the lightest, 170 pounds. The average weight of the heaviest ten was 511 pounds; of the heaviest five, 538 pounds; and of the whole, 365 pounds. There is less attempt than formerly to produce large animals. Both economy and excellence in quality of meat are promoted by slaughtering at a medium weight. The quantity of pork and of lard was so much in excess of the needs of the hospital, that 1,381 pounds of the former and 454 pounds of the latter were sold.

The poultry has been under the immediate, and almost the sole, charge of one of the patients, who has manifested both zeal and knowledge in its management, and arrived at results never before attained or attempted at the hospital; and, had it not been for the depredations of wild birds and beasts, his success would have been materially greater. The product has been about three hundred dozen of eggs, nearly five hundred pounds of chickens for the table, and an increase of over a hundred in the flock.

Mr. Mercier, the farmer, has furnished the following schedule of products, in some items of which the stated quantities are partly estimated, because the harvest is not yet complete.

## LIST OF PRODUCTS IN 1885.

Hay (first growth of home farm), 155½ tons, at \$16,	\$2,494 00
Hay (south lot), 23½ tons, at \$16,	370 00
Hay (Clarke orchard), 18½ tons, at \$16,	294 00
Hay (after-growth of whole farm), 54½ tons, at \$16,	866 00
Corn fodder, dry, 25 tons,	175 00
Oat fodder, 8 tons,	80 00
Corn, 440 bushels,	220 00
Oats, 200 bushels,	100 00
Potatoes, 3,711 bushels,	1,855 50
Broom-seed, 45 bushels,	18 00
Broom-brush, 900 pounds,	72 00
Carrots, 216 bushels,	86 40
Sugar beets, 1,270 bushels,	381 00
Beets, 226 bushels,	113 00
Onions, 416 bushels,	270 40
Turnips, 600 bushels,	240 00
Parsnips, 65 bushels,	32 50
Beans (Lima), in shell, 127 bushels,	190 50
Beans (common), in shell, 89 bushels,	89 00

Beans (string), 20 bushels, . . . . .	\$80 00
Beans (Lima), dry, 3 bushels, . . . . .	7 50
Pease (green), in pod, 147 bushels, . . . . .	235 50
Sweet corn (green), in ear, 369 bushels, . . . . .	369 00
Tomatoes, 280 bushels, . . . . .	280 00
Lettuce, 68½ bushels, . . . . .	68 50
Cucumbers, 105 bushels, . . . . .	105 00
Squashes (summer), 86 bushels, . . . . .	86 00
Squashes (winter), 4 tons, . . . . .	120 00
Melons, 10 tons, . . . . .	100 00
Asparagus, 31½ bushels, . . . . .	93 75
Pie-plant, 51 bushels, . . . . .	75 75
Beet greens, 32 bushels, . . . . .	32 00
Spinach, 4 bushels, . . . . .	4 00
Cabbages, 2,300 heads, . . . . .	115 00
Currants, 14 bushels, . . . . .	42 00
Apples, 357 barrels, . . . . .	357 00
Pears, 81 bushels, . . . . .	81 00
Quinces, 7 bushels, . . . . .	17 50
Grapes, 200 pounds, . . . . .	8 00
Veal (raised here), 813 pounds, . . . . .	98 78
Pork, 17,544 pounds, . . . . .	1,193 20
Pigs, sold, 179, . . . . .	494 25
Pigs (roasting), 1, . . . . .	2 00
Turkeys, 162 pounds, . . . . .	39 93
Chickens, 487½ pounds, . . . . .	94 69
Heads and plucks, 7, . . . . .	7 00
Eggs, 296 dozen, . . . . .	76 75
Milk (grass-fed), 34,874 quarts, . . . . .	1,743 70
Cider, 25 barrels, . . . . .	62 00
Calfskins, 7, . . . . .	8 75
Young calves, sold, 17, . . . . .	37 00
Wood, 30 cords, . . . . .	90 00
Fence posts, 50, . . . . .	10 00
Corn husks, 1½ tons, . . . . .	15 00

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\$14,147 85

Notwithstanding the lowness of prevailing prices, the valuation of the products exceeds that of 1884 by the not insignificant sum of \$1,603.67; and that of 1884 was larger, by nearly one thousand dollars, than that of any preceding year in the history of the hospital.

The stock of animals upon the farm at the termination of the official year was 9 horses, 8 working oxen, 2 fat oxen, 1 bull, 31 cows, 4 fat cows, 7 heifers, 3 calves, 164 swine, and about 300 domestic fowls.



The practice is still continued of purchasing, in October or November, one hundred or more sheep, and from fifteen to twenty three-years-old grass-fed cattle, and slaughtering them on the premises, as needed, in the course of the winter. In this way the mutton costs but little more than one-half the retail market price.

The new vegetable cellar has proved a valuable acquisition, not only to the domestic department of the institution, but to the agricultural department as well. The bins for the vegetables are raised above the concrete floor, and a space is left between them and the cellar wall. Their bottoms are narrow boards, with intervening spaces. There is, consequently, a free circulation of air not only around them, but upward, among the vegetables which they contain. Potatoes stored in them through the winter were little, if any, less solid and firm than when they were taken from the ground.

#### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1883-84, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board bills of its patients, and the small sum of ten dollars each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last mentioned source during the past year were only fifty dollars.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week, from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date, it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is the compensation fixed by statute law. One hundred and fifty-seven, or more than

one-third of the inmates, now belong to this class. During the past year the weekly average of them was 32.45 per cent., or a trifle less than one-third of the whole.

For town patients it has received, and now receives, from the treasuries of the towns respectively in which these patients have legal settlements, the same sum per week (\$3.25 each) as from the State treasury for State patients; but the towns clothe their patients, and remunerate the hospital for damages done by them. Two hundred and fifty-nine, or more than one-half, of the inmates are now in this class. The weekly average of them for the year was very nearly 55 per cent. of the whole.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1885, was \$5.083 each, per week. Clothing and damages are extra charges. The weekly average of these patients, during the past year, was a fraction over 12 per cent., or one-eighth of the whole.

The average weekly pay, per capita, charged by the hospital for all its patients—State, town and private—in the course of the year, is \$3.497, or three mills less than three dollars and a half. Such are the pecuniary resources of the institution. We turn to the results of

#### THE FINANCE OF THE LAST TWENTY YEARS.

In April, 1865, the hospital was freed from debt, and the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the first of June, 1867, it received a direct bonus from the State of \$5,000 in two appropriations, for specific purposes,—one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to nearly one hundred and seventy-five acres, together with four dwelling-houses. The total cost of this real estate was \$30,883.92. The State, then, has, in this way alone, been overpaid for its bonus, in the sum of \$25,883.92.

The amount paid by the hospital for repairs and improve-

ments in the course of the twenty years, from Sept. 30, 1865, to Sept. 30, 1885, is \$233,702.44.

The surplus of cash assets now on hand, including the reserve fund, is \$31,819.27, or \$31,517.23 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$14,762.87. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$12,262.87.

The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums, the account of debit of the Commonwealth to the hospital appears to be as follows:—

Excess of cost of land over direct bonus, . . . . .	\$25,883 92
Repairs and improvements, . . . . .	233,702 44
Excess of present cash assets, . . . . .	31,517 23
Increase of provisions and supplies, . . . . .	12,262 87
Increase of furniture, . . . . .	8,000 00
Total, . . . . .	<u>\$311,366 46</u>

The necessary current repairs of the buildings may be estimated at \$3,000 annually. Deducting this sum for each of the twenty years since Sept. 30, 1865, a total of \$60,000, there is a remainder of \$251,366.46. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely upon direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary, we have taken into account only the actual disbursements of money by the hospital, in contributing to its own improvements. But aside from this, a large amount of work, in effecting those improvements, was performed by the teams of horses and cattle belonging to the institution, and by the regular corps of its employees. Agreeably to all correct business prin-

ciples, as well as to the custom at some similar institutions, the hospital should be credited with the amount of the value of this labor. But no credit has ever been given for it. Many thousands of dollars might, in this direction, be justly added to the sum above mentioned, as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition, it may be interesting to know to what extent the tax-payers of the State have contributed to the institution. From a list, furnished by the State treasurer, of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection, down to the present day, it has cost the people of the Commonwealth, only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).

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## THE CURABILITY OF INSANITY.

### A STATISTICAL STUDY.

Notwithstanding the manifold triumphs of medicine, of surgery, and of other sciences and arts, there are inexorable limits to their achievements and their power of achievement. Nature yields in a measurable extent to the conceptions, the devices, the ministrations, and the administrations of human skill, but, as if to mock them in the end, and to demonstrate the retention of her inherent supremacy, she at length establishes a position and defies their power. These are trite truths, so trite, indeed, that the mention of them is an apparent superfluity: and yet they answer my purpose as an introduction, and are not wholly inappropriate at the beginning of a paper in which their truthfulness receives another illustration.

Nowhere are these truths more conspicuous, than in the sphere of the enterprises to overcome the disabilities of what are termed the defective classes of mankind—defective from

imperfections either congenital or acquired. It is, indeed, perhaps true that, in the treatment of the blind, in the attempt to obtain a substitute for the eye and thus open an avenue of perception to the imprisoned brain, although nothing has been discovered which is, by very far, a full equivalent of the perfect natural organ, the success has equalled the expectation. But in reference to some of the other classes this is not true; and the hopes and confident anticipations awakened in the public mind, in the comparatively early periods of the modern endeavors at improvement, have been doomed to at least a partial disappointment.

Some forty years ago, when the efforts of Dr. Guggenbuhl, in Switzerland, to elevate the idiot from his congenital degradation had been imitated in other parts of Europe, the world of philanthropy and the world of thought were startled by the announcement of a certain degree of success; and this, in the minds of the people, was magnified to such an extent as to give the general impression, that idiocy is so far amenable to culture that the great mass of its subjects can be raised nearly to a level with the average of the race. But, after the experience of a sufficient number of years to furnish a reliable test, it is found that, although partial imbeciles are susceptible of a degree of elevation in a ratio inverse to the degree of mental defection, and although, with the inclusion of the idiot, the advantages acquired are more than sufficient to vindicate the enterprise, yet the congenital idiot is essentially the congenital idiot still.

The history of the instruction of deaf-mutes in vocal language is similar, in these respects, to that of the attempts to redeem the idiot from his infirmity. Surprising results were attained in some instances, and public opinion, taking its shape and tone from these, leaped to the conclusion that, although deafness might continue, permanent mutism was soon to become a thing of the past. Experience has not yet shown that a majority of deaf-mutes are susceptible of satisfactory instruction and achievement in this method of intercommunication.

A similar exaltation of belief and of expectation has occurred in the specialty of the treatment of insanity, and, unfortunately, a similar disappointment has awaited all who had become interested in the subject, whether in the profession or among the people at large.

It is proposed, in this paper, to show, by the collocation of statistics, the actual results of treatment at a large number of institutions, both foreign and domestic, bringing our knowledge of such general results to a later date than that contained in any former statistical essay.

#### RECOVERIES AT BRITISH ASYLUMS.

The reports of many, if not most, of the British asylums, contain a table, originally designed by Dr. Thurnam, in which the admissions, discharges, recoveries and deaths of patients are classified according to the duration of the insanity.

These classes are as follows : —

1st. First attack, and within three months, on admission.

2d. First attack, above three and within twelve months, on admission.

3d. Not first attack, and within twelve months, on admission.

4th. First attack or not, but of more than twelve months, on admission.

5th. Congenital and unknown.

This is a well-conceived and useful table for its intended purpose ; and, if prepared with sufficient care and discrimination, cannot well fail to throw light upon the question of curability as affected by duration, or by the fact of first or subsequent attack.

Nearly two years ago I collated the statistics of this table in a series of the annual reports of twenty-three of the British asylums, so far as relates to all cases of less duration than twelve months at the time of admission. For more than fifty years, all such cases have, in the United States, been called *recent*, in contradistinction to those of remoter origin, which have been called *chronic*; and my object in

collecting the statistics was to ascertain the degree of curability to which those asylums had attained in the treatment of what we call recent cases.

Of each of twelve of the asylums these statistics, which are embodied in Table I., extend over a series of six consecutive years, the last of which was, in some instances, 1882, and in the others, 1883. At three of the asylums they extend over five years; at one, over four years; and at seven, over three years. At each asylum the years are consecutive; and at no one is the last of the series later than 1878, the majority being either 1880, 1881, or 1882.

TABLE I. — *Cases of less than Twelve Months, at Twenty-Three British Asylums.*

ASYLUMS.	Years Inclusive.	CASES OF FIRST ATTACK, WITH DURATION.										NOT FIRST ATTACK.		
		UNDER THREE MONTHS.			THREE TO TWELVE MONTHS.			TOTAL UNDER TWELVE MONTHS.			Per cent. of recoveries.	NOT OVER TWELVE MONTHS.		Per cent. of recoveries.
		Admissions.	Recovered.	Per cent. of recoveries.	Admissions.	Recovered.	Per cent. of recoveries.	Admissions.	Recovered.	Per cent. of recoveries.		Admissions.	Recovered.	
Somerset and Bath,	1877-82	499	189	37.88	166	80	48.19	665	269	40.45		320	148	46.25
Devizes,	1877-82	289	120	41.52	109	20	18.36	398	140	35.18		196	80	40.40
Abergeenny,	1877-82	286	141	49.47	102	24	23.53	387	165	42.64		167	101	60.48
Carmarthen,	1877-82	108	57	52.78	50	16	32.00	158	73	46.20		79	37	46.84
Derby County,	1877-82	397	180	45.34	112	41	36.61	509	221	43.42		225	128	56.89
Hereford,	1878-83	121	68	56.55	62	23	37.10	183	89	48.63		108	56	51.85
South Yorkshire,	1877-82	1,251	585	46.16	214	55	25.70	1,465	620	42.32		683	335	48.34
Prestwich,	1877-82	1,203	671	55.78	243	63	25.93	1,446	734	50.76		641	319	49.96
Lancaster,	1877-82	664	383	57.68	344	90	26.16	998	483	48.40		444	309	69.59
Warwick County,	1878-83	228	124	54.39	116	31	26.72	344	155	45.06		111	63	56.76
Edinburgh Roy,	1878-83	755	381	50.46	298	98	32.89	1,053	479	45.49		673	381	56.61
Belfast,	1877-82	444	234	52.70	147	49	33.33	591	283	47.88		112	74	66.07
Retreat, York,	1878-80	40	20	50.00	21	9	42.86	61	29	47.54		36	13	36.11
Garnavel,	1875-81	541	227	41.96	126	22	17.46	667	249	37.33		235	108	45.96
Cambridge and Ely,	1877-81	213	85	39.90	66	9	15.51	271	94	34.69		76	40	52.63
Barming Heath,	1877-80	558	259	46.54	183	64	29.50	736	313	42.53		302	196	64.57
City of London,	1880-82	62	27	43.55	28	10	35.71	90	37	41.11		44	28	63.64
Berrywood,	1878-80	181	71	39.23	68	28	40.28	239	99	41.42		102	39	38.23
Worcester,	1879-81	169	81	47.93	73	15	20.56	242	96	39.67		113	82	72.57
Nottingham,	1877-79	119	64	45.38	31	12	38.71	150	66	44.00		44	19	43.18
Beverly,	1876-78	87	44	50.47	23	2	8.69	110	46	41.82		42	20	47.62
Crichon,	1877-79	47	25	53.19	14	4	28.57	61	29	47.54		30	21	70.00
Southern Counties,	1877-79	70	37	52.86	35	9	25.71	105	46	43.81		73	44	60.27
Totals,		8,316	4,051	48.71	2,613	764	29.24	10,929	4,815	44.06		4,768	2,640	55.37

Aggregate of admissions, 15,697; of recoveries, 7,456. Per cent. of recoveries, 47.49.



The results of these statistics may be briefly stated.

1st class (first attack, less than 3 months' duration), the admissions were 8,316; recoveries, 4,051; per cent. of recoveries, 48.71.

2d class (first attack, 3 to 12 months' duration), admissions, 2,613; recoveries, 764; per cent. of recoveries, 29.24.

3d class (not first attack, less than 12 months' duration), admissions, 4,768; recoveries, 2,640; per cent. of recoveries, 55.37.

By uniting the first two classes, we have all cases of first attack and of less duration than one year. Of these, the admissions were 10,929; the recoveries, 4,815; and the proportion of recoveries, 44.06 per cent.

Of the third class the admissions were 4,768; the recoveries, 2,640; and the proportion of recoveries, 55.37 per cent. Here we have another illustration of the fact that recovery takes place in a less proportion of cases of first attack than in cases subsequent to the first—a fact which was demonstrated in an article on curability in the report for 1880 of this hospital.

By a union of the three classes, all of which contain, exclusively, cases of less than twelve months in duration, and are consequently here known as recent cases, we obtain the following results: Admissions, 15,697; recoveries, 7,455; proportion of recoveries, 47.49 per cent.

Among this series of twenty-three asylums is the Retreat at York, the statistics of recoveries at which, from 1796 to 1819, have been quoted, ever since they were published, as one of the authorities for the eminent curability of mental disorders. It may not be uninteresting to bring into juxtaposition those statistics of three-fourths of a century ago, and those of the same institution for the five years from 1876 to 1880 inclusive. This is done in the following table:—

TABLE II. — *Per cent. of Recoveries at the York Retreat of Cases of less Duration than Twelve Months.*

	Per cent. of 1st Class.	Per cent. of 2d Class.	Per cent. of 3d Class.	Per cent. of Total.
1796-1819, . . . . .	85 10	55.55	61.76	68.25
1876-1880, . . . . .	50 00	42.86	36.11	43.30
Decrease of per cent, . . .	35.10	12.69	25.65	24.95

The diminution of the proportion of recoveries on the admissions is, for the first class, 35.10 per cent. of the admissions; for the second class, 12.69 per cent.; for the third class, 25.65 per cent.; and for the whole, 24.95 per cent., or, in round numbers, one-fourth of the admissions.

The proportion of diminution from the actual recoveries of the first period, is, for the first class, 41.17 per cent., or a fraction more than two-fifths; for the second class, 22.84 per cent., or a fraction more than one-fifth; for the third class, 41.53 per cent., or a fraction over two-fifths; and for the whole, 36.25 per cent. In other words, for each hundred of recoveries of what we call recent cases, three-fourths of a century ago, there are but sixty-four (63.75) recoveries now.

Some months after the collection of the foregoing statistics, but before any use had been made of them, Dr. T. A. Chapman, of the Hereford Asylum, England, published a similar but much larger collection, in "The Journal of Mental Science" for July 1884. It contains the statistics of "46 English County and Borough Asylums, and the Edinburgh and Glasgow Royal Asylums, for (in most instances) 11 years, 1872 to 1882 inclusive." Here is a collocation of the remarkable number of 93,443 cases of insanity, all of them classified as in the foregoing table. The whole number of recoveries was 35,468, or 37.95 per cent. of the admissions. But as the recoveries of *recent* cases are now alone under consideration, we will turn our attention especially to them. The subjoined table (III.) shows the numbers, and the percentage, in each of the first three of Thurnam's classes.

TABLE III. — *Recoveries of Cases of less Duration than one Year.*

CLASSES.	Admissions.	Recoveries.	Per cent. of Recoveries.
<i>Class I.</i>			
1st attack ; less than 3 months' duration, .	38,283	18,654	48.72
<i>Class II.</i>			
1st attack ; 3 to 12 months' duration, . .	12,126	3,421	28.21
<i>Class III.</i>			
Not 1st attack ; less than 12 months' duration, . . . . .	19,574	10,494	53.61
Totals and mean per cent., . . . .	69,983	32,569	46.52

Dr. Chapman's table includes, apparently, twenty-eight asylums that are not in mine, and mine has five that are not in his. Of these five, two are in Scotland and three in England, the Retreat at York being one.

In regarding these two collections of statistics, so much alike and yet so different, almost the first impression received from them is the striking similarity of results. These are, indeed, so nearly identical as to justify one's faith in the sometime possibility of a close approximation to accuracy in this branch of vital statistics. The difference in the proportion of recoveries, as indicated by the two, are, for the first class of cases, only one one-hundredth (.01) of one per cent. ; for the second class, one and three hundredths (1.03) per cent. ; for the third class, one and seventy-six hundredths (1.76) per cent. ; and for the total, ninety-seven hundredths (.97) of one per cent.

When Dr. Woodward, in 1833, took charge of the Worcester Hospital, he had before him, as exemplars, three well-known pioneers in the field of high percentages of recoveries. Dr. Burrows, in 1820, had reported 91.32 per cent. as the result of the treatment of 242 cases, of which 221 recovered. He also published the results, from 1797 to 1819, at the York Retreat, where, of 47 cases of less duration than three months, the recoveries were 40, or an equiv-

alent of 85.10 per cent.\* In 1827 Dr. Todd, at the Hartford Retreat, reported that, of 23 recent cases admitted, 21 had recovered, a proportion of 91.3 per cent. In 1841, Dr. Woodward obtained his highest proportion of recoveries, 91.42 per cent., by the treatment of 70 cases, 64 of which recovered; and in 1842, Dr. Galt, at the Williamsburg (Virginia) Asylum, excelled all of his predecessors in the announcement that of 13 recent cases under his care 12 had recovered, a percentage of 92.3.

Here we have five different, well-known medical authorities, each confirmatory and corroborative of the others, and all of which have, for an average of half a century, been regarded as a kind of oracular proclaimers of the possible achievement of recovery in about 90 per cent. of recent cases. Yet, singularly enough, the whole of the five separate reputations were built, and the oracles established, upon the treatment of an aggregate of only 395 cases.

On the other hand we have before us, in Dr. Chapman's table, the results of treatment of a number of recent cases which lacks but seventeen to make it seventy thousand, and the recoveries are only 32,569, or 46.52 per cent. This ratio of curability is only eighty-six hundredths of one per cent. more than half as large as that which was claimed by Dr. Burrows, and only thirty-seven hundredths of one per cent. more than one-half as large as that of Dr. Galt. Even in the cases of first attack and of only three months' duration, of which there were 33,283, the recoveries were but 18,654, or 48.72 per cent. In the light thrown upon the subject by this unparalleled collection of recent cases, what becomes of the once exceedingly fashionable assertion that "from seventy-five to ninety per cent. can be cured"?

#### RECOVERIES AT THIRTY-NINE (15 + 24) AMERICAN INSTITUTIONS.

Inasmuch as neither Thurnam's table nor its equivalent in any other form is used at the American institutions, it is impossible to group or to analyze the results at the latter on

\* The fact should not be overlooked that, if the word *recent* be used in its American signification, applying to all cases of less duration than one year, the proportion of recoveries at the Retreat was only 68.25 per cent., the admissions being 126, and the recoveries 86.

precisely the same basis in all respects. Nevertheless, upon looking over the American reports, I find that a large amount of matter may be brought together, illustrative of the proportion of the reported recoveries of recent cases.

In the statistics of a majority of our hospitals, although in reference to admissions the duration of the insanity is given, and hence a distinction between recent and chronic cases rendered possible, yet no such discrimination is made in regard to patients discharged. The subjoined table contains the results, in regard to recovery, for a series of from three to six years, of fifteen American hospitals, in the reports of which the recoveries of cases of less than twelve months' duration are numerically given. The time during which each hospital, respectively, furnished these statistical results is mentioned in the table.

TABLE IV.—*Whole Number of Recoveries, and Recoveries of Cases of less than Twelve Months' Duration, at Fifteen American Institutions.*

ASYLUMS.	Year.	ADMISSIONS.		DISCHARGED RECOVERIES.				
		Under 12 Months.	Whole Number.	Under 12 Months.	Per cent. of Recent Cases.	Whole Number.	Per cent. of Whole Number.	Per cent. of all Recoveries on Recent Admissions.
Elgin, . . .	6	488	1,017	197	40.37	246	24.19	50.41
Concord, . . .	5	334	636	148	44.31	161	30.04	48.20
Worcester, . . .	5	593	1,254	191	32.21	254	20.26	12.83
Taunton, . . .	5	824	1,619	300	36.41	369	22.79	44.78
Utica, . . .	5	1,518	2,184	661	43.54	716	32.78	47.17
Harrisburg, . . .	5	395	716	117	29.62	133	18.58	33.67
Dixmont, . . .	5	646	1,117	238	36.84	288	25.78	44.58
Dayton, . . .	5	607	977	285	46.95	342	35.00	56.34
Ossawatimie, . . .	5	398	707	165	41.46	217	30.69	54.52
McLean, . . .	4	207	308	81	39.13	89	28.90	42.99
Northampton, . . .	4	224	511	75	33.48	104	20.35	46.43
Danvers, . . .	4	962	2,078	361	37.53	458	22.04	47.61
Columbia, S. C. . .	4	408	702	110	26.96	161	22.93	39.46
Boston, . . .	3	174	275	66	37.93	80	29.09	45.98
Winnebago, . . .	3	285	561	117	41.05	162	28.88	56.84
Totals and mean per cent., . . .	68	8,063	14,562	3,112	33.59	3,780	25.96	46.88

The aggregate of the admissions of all cases is 14,562; the aggregate recoveries, 3,780; and the proportion of

recoveries, 25.96 per cent. The largest proportion was 35 per cent., at Dayton; and the smallest, 18.58 per cent., at Harrisburg. At five others it was less than 23 per cent., and at still five others less than 30 per cent.; while at three besides Dayton, it was over 30 per cent.

The aggregate of admissions of recent cases, is 8,063; that of recoveries of recent cases, 3,112; and the proportion of recoveries of recent cases, 33.59 per cent. The largest proportion is 46.95 per cent., at Dayton; and the smallest, 26.96 per cent., at Columbia, S. C. Of the thirteen others, the proportion at one was less than 30 per cent.; at two, between 30 and 35 per cent.; at five, between 35 and 40 per cent.; and at five between 40 and 45 per cent.

Finding that, in despite of the traditional "75 to 90 per cent." of some of the fathers, not one of these hospitals discharged even 47 per cent. of recoveries of recent cases, while the mean or average of all of them was less than 39 per cent., I studied the relation between the *whole number of recoveries* and the number of *admissions of recent cases*. The whole number of recoveries is larger by 668 than the recoveries of recent cases, and the number of admissions of recent cases is 6,499 smaller than the whole number of admissions. Yet, strange as it may appear, the total of recoveries is only 46.88 per cent. of the admissions of recent cases! The largest proportion, 56.84 per cent., is at Winnebago, and the least, 33.67 per cent., at Harrisburg. Of the remaining thirteen hospitals, the proportion is less than 40 per cent. at one; between 40 and 45 per cent. at four; between 45 and 50 per cent. at five; between 50 and 55 per cent. at two; and over 55 (56.34) per cent. at one. Thus, after aiding and assisting the recoveries of recent cases by a supplementary and a complimentary gift of the certainly not despicable number of 668 cases, we have been unable to swell them even to 50 per cent. of the admissions of recent cases.

We now come to the hospitals which give the duration of the disease in the cases admitted, but give no such information in respect to the cases discharged. The following table includes the statistics, for a term of from three to six years each, of twenty-four institutions of this class. Of six of

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them the term was six years; of eleven, five years; of six, four years; and at one, three years:—

TABLE V. — *Recoveries at Twenty-four American Institutions.*

HOSPITAL.	Years.	ADMISSIONS.		DISCHARGES.		
		Under 12 Months' Duration.	Total Admissions.	Total Recoveries.	Per cent. of Recoveries on all Admissions.	Per cent. of all Recoveries on Admissions of less than 12 Months' Duration.
Jacksonville, Ill., . . .	6	1,000	1,605	440	27.41	44.00
Mt. Pleasant, Iowa, . . .	6	852	1,548	400	25.84	46.95
Fulton, Mo., . . .	6	675	1,162	564	48.54	83.56
St. Joseph, Mo., . . .	6	435	740	257	34.73	59.08
Lincoln, Neb., . . .	6	414	654	267	40.83	64.49
Jackson, La., . . .	6	83	231	63	27.27	75.90
Hartford Retreat, . . .	5	300	434	150	34.56	50.00
Middletown, Ct., . . .	5	492	1,168	241	20.63	43.98
Middletown, N. Y., . . .	5	503	775	300	38.71	59.64
Trenton, N. J., . . .	5	373	786	244	31.04	65.42
Danville, Pa., . . .	5	263	695	110	15.83	41.83
Williamsburg, Va., . . .	5	165	380	171	45.00	104.00
Richmond, Va., . . .	5	357	559	254	45.44	71.15
U. S. Gov't Hospital, . . .	5	549	1,099	357	32.48	65.03
Jackson, Miss., . . .	5	235	526	228	43.35	97.02
Cleveland, O., . . .	5	681	1,135	414	36.48	60.79
Longview, O., . . .	5	470	882	325	36.85	69.15
Brattleboro, Vt., . . .	4	199	344	88	25.58	44.22
Stanton, Va., . . .	4	207	467	201	43.04	97.10
Weston, W. Va., . . .	4	138	328	104	31.71	76.47
Pontiac, Mich., . . .	4	320	707	145	20.51	45.31
Madison, Wis., . . .	4	307	746	163	21.85	53.09
St. Peter Minn., . . .	4	486	1,168	267	22.86	54.94
Augusta, Me., . . .	3	358	617	180	29.17	50.28
Totals and mean per cent., . . .	118	9,860	18,756	5,933	31.63	60.17

The total of admissions is 18,756; the total of recoveries, 5,933; and the proportion of all recoveries on all admissions, 31.63 per cent. The largest percentage of recoveries, 48.54, was at Fulton, Mo., and the smallest, 15.83, at Danville, Pa. Of the remaining 22 institutions, the proportion was less than 23 per cent. at four; from 25 to 30 per cent. at five; from 30 to 35 per cent. at five; from 35 to 40 per cent. at three; from 40 to 45 per cent. at three; and from 45 to 46 per cent. at two.

The whole number of *recent cases* admitted was 9,860; the whole number of recoveries, as before stated, 5,933; and the percentage of *all recoveries* upon the number of *recent cases* admitted, 60.17. Here, then, by setting aside and disregarding the 8,896 cases of more than 12 months

duration, we have succeeded in raising the recoveries to a point above 50 per cent.

By the union into one group, so far as they are susceptible of such union, of the contents of these two tables, we obtain the following aggregate results.

In 39 American hospitals, during a period of from three to six years each, making an aggregate of 186 years of hospital work, the number of patients admitted was 33,318; the number of patients discharged recovered, 9,713; and the proportion of recoveries, as compared with admissions, 29.15 per cent. In the factors producing this result it will be observed that all the cases of duplicate, triplicate and manifold recoveries of one and the same person, are included, and yet the recoveries do not rise to 30 per cent.

The whole number of *recent* cases admitted was 17,923; the total of recoveries of both recent and chronic cases, as already mentioned, 9,713; and the proportion of *all recoveries*, as compared with the admissions of *recent cases*, 54.19 per cent. But be it not forgotten that this result is obtained by the sacrifice, or annulment, of *fifteen thousand three hundred and ninety-five (15,395) admissions*, or, in other words, by calculating the proportion of recoveries upon a little more than one-half of the number of admissions.

#### RECOVERIES AT TWENTY AMERICAN HOSPITALS; THIRD TERM OF FIVE YEARS.

It will, perhaps, be remembered that my monograph on the Curability of Insanity, which was prepared in 1876, contained a list of twenty institutions for the insane, so tabulated with their statistics as to show the proportion of recoveries at each of two quinquennial periods, — the first of those periods being the second quinquennium of the existence of those hospitals, respectively, and the last period being the quinquennium terminating in either 1876 or one of the two immediately preceding years. The longest time wholly intervening between those two quinquennia was 44 years, at the McLean Asylum, Mass.; the shortest, 2 years, at the Mendota Hospital, Wisconsin; and the mean or average time, 18½ years. But the true mean time, as applied to the gathering of the statistics — that is, the time



from the middle of the first quinquennium to the middle of the last — was five years longer, or  $23\frac{1}{2}$  years.

The total of admissions in the first period was 14,516; the total of recoveries, 6,689; and the proportion of recoveries on admissions, 46.08 per cent. The admissions of the second period were 24,383; the recoveries, 8,354; and the proportion of recoveries, 34.26 per cent., or a fall of 11.82 in that proportion. This diminution equalled one-fourth, or to be exact, 25.66 per cent., of the recoveries of the first period.

As eight years have elapsed since the close of the second period, it has appeared to me that some similar researches, at a still later date, might tend more fully to illustrate the subject of curability, and perhaps secondarily, or indirectly, the general character of the disease. Accordingly, I have collected the statistics of admissions and recoveries at the same twenty institutions during a third period of five years, that period terminating, at nineteen of them, in or with 1884, and at one where the reports are biennial, in or with 1883. At two of the institutions, both of which use biennial reports, the duration of the period is six years. Those statistics, together with the results in each of the first two periods, are contained in the following table:—

TABLE VI. Recoveries at Twenty American Hospitals; Three Terms of Five Years Each.

INSTITUTION.	First Five Years.	Per cent. of Recoveries.	Second Five Years.	Per cent. of Recoveries.	Third Five Years.	Total Admitted.	Total Recovered.	Per cent. of Recoveries.	Per cent. of Recoveries compared with that of Second Five Years.		Decrease of per cent. of Recoveries from First Five Years.
									Decrease.	Increase.	
Augusta, Me.,	1846-50	48.55	1871-75	36.62	1880-84	1,008	296	29.36	7.26	-	19.19
Concord, N. H.,	1848-52	46.92	1872-76	32.97	1880-84	623	158	25.36	7.61	-	21.56
Brattleboro', Vt.,	1841-46	43.50	1871-76	30.43	1879-83	531	124	23.50	7.93	-	21.00
McLean, Mass.,	1823-27	40.69	1871-76	21.66	1880-84	421	123	29.22	-	7.56	11.47
Worcester, Mass.,	1839-43	48.69	1871-75	29.76	1880-84	1,319	264	20.01	9.74	-	28.58
Taunton, Mass.,	1859-63	43.46	1871-75	23.11	1880-84	1,318	296	22.46	.65	-	21.00
Batler Hospital,	1854-58	39.78	1872-76	35.57	1880-84	635	194	30.55	6.02	-	9.23
Hartford Retreat,	1820-33	57.40	1870-74	39.21	1880-84	453	162	35.76	3.45	-	21.64
Bloomington, N. Y.,	1826-30	47.56	1871-75	32.56	1880-84	626	200	31.95	.60	-	15.60
Utica, N. Y.,	1848-52	43.17	1871-75	32.33	1880-84	2,020	610	30.20	2.13	-	12.97
Flushing, N. Y.,	1861-65	41.88	1871-75	33.11	1880-84	2,071	336	16.22	16.98	-	25.66
Trenton, N. J.,	1853-57	42.79	1872-76	31.32	1880-84	836	251	30.02	1.30	-	12.77
Pennsylvania Hospital,	1846-50	51.10	1871-75	42.30	1880-84	973	328	33.71	8.59	-	17.39
Dixmont, Penn.,	1861-65	37.78	1871-75	30.01	1880-84	968	216	22.31	7.70	-	15.47
Catonville, Md.,	1839-43	51.59	1871-75	40.83	1880-84	656	209	31.86	8.97	-	19.73
Newburg, O.,	1860-64	46.63	1871-75	30.03	1880-84	1,147	439	38.27	-	8.24	8.36
Dayton, O.,	1860-64	60.16	1870-74	45.25	1880-84	910	337	37.03	8.22	-	23.13
Indianapolis, Ind.,	1853-57	57.26	1871-76	52.48	1880-84	4,010	1,678	41.84	10.64	-	15.42
Jacksonville, Ill.,	1855-60	46.53	1869-74	31.96	1879-84	1,486	393	26.58	5.38	-	19.95
Mendota, Wis.,	1865-69	33.82	1871-75	25.86	1880-84	1,021	280	27.42	-	1.56	6.40
Totals and mean per cent.,		46.08		34.26		23,052	6,896	29.91	4.35		16.17

The aggregate admissions in the course of this third period is 23,052; the aggregate recoveries, 6,896; and the proportion of recoveries, 29.91 per cent. of the admissions, — a result which demonstrates that the reported recoveries have continued to diminish, during the last eight years, in very nearly the same annual ratio as they had diminished between the first and the second period.

The following is a summary of the results of the whole investigation:—

Recoveries in the first period, 46.08 per cent. of the admissions.

Recoveries in the second period, 34.26 per cent. of the admissions.

Recoveries in the third period, 29.91 per cent. of the admissions.

Decrease of recoveries from first to second periods, 11.82 per cent. of the admissions.

Decrease of recoveries from second to third periods, 4.35 per cent. of the admissions.

Total decrease of recoveries from first to third periods, 16.17 per cent. of the admissions.

The decrease of recoveries from first to second periods is 25.66 per cent. of the recoveries of the first period.

The decrease of recoveries from second to third periods is 12.69 per cent. of the recoveries of the second period.

The total decrease from the recoveries of the first period is equal to 35.09 per cent. of the recoveries of the first period.

The numbers of the insane subjected to treatment being hypothetically the same at the three periods, then, for each hundred (100) that recovered in the first period only seventy-four (74.34) recovered in the second period, and only sixty-five (64.91) recover now.

The proportion of recoveries between the last two periods, from 1879 to 1884, did not diminish at all of the twenty institutions. At three of them it increased. At the McLean Asylum this increase was 7.56 per cent. of the admissions; at the Newburg, Ohio, hospital, it was 8.24 per cent.; and at the Mendota, Wisconsin, hospital, 1.56 per cent. But notwithstanding this augmentation, the actual decrease from

the proportion recovered in the first period, at those three institutions, is still 11.47, 8.36, and 6.40 per cent., respectively.

The decrease from the second to the third period, and the total decrease from the first to the third period, at each of the 17 other institutions, may be learned from the last two columns of the table. The decrease is more than one-half at the Worcester and the Flatbush hospitals; very nearly one-half at Brattleboro' and Taunton; and more than one-third at Augusta, Concord, Hartford, Pennsylvania Hospital, Dixmont, Catonsville, Dayton and Jacksonville.

#### STATISTICS OF ONE YEAR AT FIFTY-EIGHT AMERICAN INSTITUTIONS.

For the purpose of ascertaining the extent to which the results of one year of the current work at American institutions would enlighten us upon the subject of curability, I have collected and herewith present, in Table VII., the statistics of fifty-eight of them, taken, in fifty-one instances, from the reports for 1884. Of seven of the hospitals the reports are biennial, and consequently contain the results for two years each. In four instances the report from which these results were taken ended in 1884; in one instance in 1883, and in two in 1882.

I am well aware of the many influences, both favorable and unfavorable, which may, and often do, modify the number of recoveries, as well as of deaths, in public institutions, and which necessarily render the results of any one year unreliable as a test or measure of the work of a series of years, at any individual hospital. But at a large number of institutions on any given year, these influences would probably very nearly balance one another, and consequently the aggregate results would fairly represent the mean or average of the same group of institutions for a much greater length of time.

TABLE VII. — *One Year at Fifty-Eight American Institutions.*

INSTITUTION.	State.	Year.	Admitted.	Recov- ered.	Per cent. of Recov- eries.	Died.	Per cent. of Deaths.
Augusta, . . .	Me., .	1884	203	59	29.06	101	49.75
Concord, . . .	N. H., .	1884	141	18	12.77	24	17.02
Brattleboro', . .	Vt., .	1884	82	23	28.05	29	35.36
McLean, . . .	Mass., .	1884	113	34	30.09	17	15.04
Worcester, . . .	Mass., .	1884	252	53	21.03	57	22.62
Northampton, . .	Mass., .	1884	136	25	18.38	25	18.38
Taunton, . . .	Mass., .	1884	283	85	30.01	65	22.97
Danvers, . . .	Mass., .	1884	530	96	18.11	101	19.06
Boston, City, . .	Mass., .	1884	121	34	28.10	32	26.45
Butler, . . .	It. I., .	1884	106	46	43.40	13	12.26
Hartford Retreat, .	Ct., .	1884	97	37	38.14	18	18.56
Middletown, . .	Ct., .	1881	271	72	26.57	80	29.52
Bloomington, . .	N. Y., .	1884	136	55	40.44	27	19.85
Flatbush, . . .	N. Y., .	1884	479	47	9.81	101	21.09
Utica, . . .	N. Y., .	1884	372†	89	23.92	56	15.05
Buffalo, . . .	N. Y., .	1884	275	80	29.09	43	15.63
Trenton, . . .	N. J., .	1884	175	52	29.71	64	36.57
Morristown, . . .	N. J., .	1884	210	37	17.62	57	27.14
Penna. Hos., . .	Pa., .	1884	203	51	25.12	40	19.70
Harrisburg, . . .	Pa., .	1884	128	23	17.97	36	28.12
Dixmont, . . .	Pa., .	1884	189	28	14.81	69	36.50
Danville, . . .	Pa., .	1884	201	37	18.41	29	14.42
Norristown, . . .	Pa., .	1884	356	92	25.84	96	26.96
Warren, . . .	Pa., .	1884	203	38	17.73	46	22.66
Catonsville, . .	Md., .	1884	95	29	30.53	30	31.57
Mount Hope, . .	Md., .	1884	169	77	45.56	45	26.62
Washington, . .	D. C., .	1884	347	79	22.77	67	19.30
Staunton, . . .	Va., .	1884	133	55	41.35	36	27.06
Richmond, . . .	Va., .	1884	119	97	81.51	61	51.26
Weston, . . .	W. Va., .	1884	176	74	42.05	39	22.15
Raleigh, . . .	N. C., .	1884	106	26	24.53	11	10.37
Goldsboro', . .	N. C., .	1884	81	26	32.10	14	17.28
Morganton, . . .	N. C., .	1884	71	31	43.66	9	12.67
Columbia, . . .	S. C., .	1884	293	72	24.57	143	48.80
Austin, . . .	Texas, .	1884	254	68	25.98	41	16.14
Little Rock, . .	Ark's, .	1884	82	42	51.22	21	25.61
Nashville, . . .	Tenn., *	1882-84	222	67	30.18	62	27.93
Columbus, . . .	Ohio, .	1884	282	164	58.16	59	20.92
Newburg, . . .	Ohio, .	1884	220	87	39.55	37	16.81
Dayton, . . .	Ohio, .	1884	188	60	31.91	37	19.68
Athens, . . .	Ohio, .	1884	223	96	43.05	63	28.25
Longview, . . .	Ohio, .	1884	220	56	25.45	58	26.36
Indianapolis, . .	Ind., .	1884	908	329	36.23	112	12.33
Pontiac, . . .	Mich., .	1884	192	62	32.29	29	15.10
Kalamazoo, . . .	Mich., .	1884	174	17	9.77	9	5.17
Jacksonville, . .	Ill., .	1884	240	56	23.33	32	13.33
Elgin, . . .	Ill., .	1884	123	38	30.89	21	17.07
Anna, . . .	Ill., .	1884	220	67	30.45	33	15.00
Kankakee, . . .	Ill., .	1884	291	48	16.49	31	10.65
Mendota, . . .	Wis., .	1884	239	58	24.27	30	12.55
Oshkosh, . . .	Wis., *	1883-84	601	148	24.63	115	19.13
Mt. Pleasant, . .	Iowa, *	1882-83	534	120	22.47	98	18.35
Independence, . .	Iowa, .	1883	233	38	16.31	34	14.59
St. Peter, . . .	Minn., *	1883-84	555	143	24.03	82	13.78
Rochester, . . .	Minn., *	1883-84	299	55	18.39	43	14.38
Fulton, . . .	Mo., *	1881-82	364	175	48.08	113	31.04
St. Joseph, . . .	Mo., *	1881-82	316	110	34.81	49	15.51
Napa, . . .	Cal., .	1884	500	130	26.00	90	18.00
Totals and mean per cent., . . .	-	-	14,372	4,007	27.88	2,980	20.74

\* Biennial.

† 15 cases "found not insane" are deducted.

The aggregate of patients admitted at these fifty-eight institutions, in the course of the time specified, is 14,372; the aggregate of recoveries, 4,007; and the proportion of recoveries, calculated upon the admissions, 27.88 per cent., or a trifle more than one-fourth. The least relative number of recoveries, 9.77 per cent., was at Kalamazoo; and the largest, 81.51 per cent., at Richmond.

In the following schedule the hospitals are arranged in groups, according to the proportion of their recoveries, each group differing five per cent., from the one above or below it.

Below 10 per cent., Flatbush and Kalamazoo.

From 10 to 15 per cent., Concord and Dixmont.

From 15 to 20 per cent., Northampton, Danvers, Morristown, Harrisburg, Danville, Warren, Kankakee, Independence and Rochester.

From 20 to 25 per cent., Worcester, Utica, U. S. Gov't Hospital, Raleigh, Columbia, S. C., Jacksonville, Mendota, Oshkosh, Mt. Pleasant and St. Peter.

From 25 to 30 per cent., Augusta, Brattleboro', Boston, Middletown, Ct., Buffalo, Trenton, Penna Hospital, Norristown, Austin, Longview and Napa.

From 30 to 35 per cent., McLean, Taunton, Catonsville, Goldsboro', Nashville, Dayton, Pontiac, Elgin, Anna and St. Joseph.

From 35 to 40 per cent., Hartford Retreat, Newburg and Indianapolis.

From 40 to 45 per cent., Butler, Bloomingdale, Staunton, Weston, Morganton and Athens.

From 45 to 50 per cent., Mount Hope and Fulton.

From 50 to 55 per cent., Little Rock.

From 55 to 60 per cent., Columbus.

Over 60 per cent., Richmond.

If there be no mistake in the record from the Virginia Central Asylum, at Richmond, that institution, so far as my knowledge extends, has exceeded every other of its kind, not in America alone but upon the whole surface of the earth, in the proportion of its recoveries. Forty years ago, it was doing well to report the recovery of eighty per cent. of *recent* cases. At the present time, it is rare that even sixty per cent. are so reported, and the average in the United States, as we have just seen, is below forty per cent. But here we are confronted with a proportion of 81.51 per cent. of *recoveries of all the cases admitted!* The moral to be derived herefrom appears to be, that, if any person yet

unborn be blessed with the pre-natal power of foreordination of his own physical organization, and desires to recover in case he be afflicted with insanity, he should elect to be born a negro.\*

There is yet another useful moral to be derived from the case. At the Danvers Hospital, which, before it went into operation, had cost more than \$3,500 for every patient for whom its accommodations were calculated, and more than \$2,500 for each of the seven hundred patients who have been crowded into it, the per cent. of recoveries was 18.11. At the Richmond Hospital, which apparently could not have cost over \$100, and probably not more than \$50, per patient, the recoveries were equal to 81.51 per cent. The moral is so conspicuously obvious, that it would be a work of supererogation to repeat it.

In Table VIII., the fifty-eight hospitals and their statistics are grouped according to the States in which they are respectively situated.

TABLE VIII. — *State Groups, One Year.*

STATE.	No. of Hospitals.	Admissions.	Recoveries.	Per cent. of Recoveries	Died.	Per cent. of Deaths.
Maine, . . . . .	1	203	59	29.06	101	49.75
New Hampshire, . . . . .	1	141	18	12.77	24	17.02
Vermont, . . . . .	1	82	23	28.05	29	35.36
Massachusetts, . . . . .	6	1,435	327	22.79	297	20.69
Rhode Island, . . . . .	1	106	46	43.40	13	12.25
Connecticut, . . . . .	2	368	109	29.62	98	26.63
New York, . . . . .	4	1,262	271	21.47	227	17.99
New Jersey, . . . . .	2	385	89	23.12	121	31.15
Pennsylvania, . . . . .	6	1,280	267	20.80	316	24.69
Maryland, . . . . .	2	264	106	40.15	75	28.41
District of Columbia, . . . . .	1	347	79	22.77	67	19.31
Virginia, . . . . .	2	252	152	60.31	97	38.49
West Virginia, . . . . .	1	176	74	42.05	39	22.15
North Carolina, . . . . .	3	258	83	32.17	34	13.18
South Carolina, . . . . .	1	293	72	24.57	143	48.80
Texas, . . . . .	1	254	66	25.98	41	16.14
Arkansas, . . . . .	1	82	42	51.22	21	25.61
Tennessee, . . . . .	1	222	67	30.18	62	27.93
Ohio, . . . . .	5	1,133	463	40.86	254	22.41
Michigan, . . . . .	2	366	79	21.58	38	10.38
Indiana, . . . . .	1	908	329	36.23	112	12.33
Illinois, . . . . .	4	874	209	23.91	117	13.38
Wisconsin, . . . . .	2	840	206	24.52	145	17.26
Iowa, . . . . .	2	767	168	20.60	132	17.21
Minnesota, . . . . .	2	894	198	22.14	125	13.98
Missouri, . . . . .	2	680	285	41.91	162	23.82
California, . . . . .	1	500	130	26.00	90	18.00
Totals and mean per cent.,	58	14,372	4,007	27.88	2,980	20.74

\* The Virginia Central Asylum is for colored persons.

The proportion of recoveries was the smallest in New Hampshire, and that proportion increased in the other States in the following order: Pennsylvania, Iowa, New York, Michigan, Minnesota, District of Columbia, Massachusetts, New Jersey, Illinois, Wisconsin, South Carolina, Texas, California, Vermont, Maine, Connecticut, Tennessee, North Carolina, Indiana, Maryland, Ohio, Missouri, West Virginia, Rhode Island, Arkansas and Virginia.

If the statistics of recoveries be arranged in accordance with the groups popularly called the Eastern, the Middle, the Southern, and the Western States, the results are as follows:— and to them are appended the percentage of deaths, calculated, like the recoveries, upon the number of patients admitted.

In the Eastern States the total of admissions was 2,335; the total of recoveries, 582; and the proportion of recoveries, 24.92 per cent. The number of deaths was 562, and the proportion, 24.07 per cent. The number of recoveries exceeded that of deaths by only 20.

In the Middle States the number of admissions was 2,927; the number of recoveries, 627; and the proportion of recoveries, 21.42 per cent. There were 664 deaths, equal to a percentage of 22.69. The deaths have a majority of 37 over the recoveries; and the proportion of both recoveries and deaths is less than in the Eastern States. It has been suggested in one of the criticisms of a psychological periodical, that the small ratio of recoveries in Massachusetts is a consequence of the published writings of the superintendent of one of the hospitals in that State. As, according to these statistics, the proportion of recoveries is less in the Middle States than in Massachusetts, the proposition now is,—  
*Whose published writings were the cause of it?*

In the Southern States 1,844 patients were admitted; and 632, or 34.27 per cent., recovered. The total of deaths was 496, or 26.90 per cent. The proportion of recoveries is nearly ten per cent. on the admissions in excess of those of the Eastern States; and that of deaths nearly three per cent. The proportion of recoveries is considerably increased by the statistics of the Richmond Asylum. If those statistics be set aside, and the computation made upon the returns from the



other Southern institutions, the results are: Admissions, 1,725; recoveries, 535; per cent. of recoveries, 31.21. Deaths, 435; per cent. of deaths on admissions, 25.21.

In the Western States the admissions were 7,266; the recoveries, 2,166; and the proportion of them 29.81 per cent. Of deaths there were 1,258, or a proportion of 17.31 per cent., which is more than five per cent. of the admissions less than in either of the other sections.

Arranged in accordance with the *increasing* ratio of recoveries, that is, from lowest to highest, the sections stand as follows: Middle, Eastern, Western, Southern; and in accordance with the *decreasing* ratio, from highest to lowest, of deaths, as follows: Southern, Eastern, Middle, Western.

These results are derived from the work of but a single year, and hence are unreliable as an established formula. By the extension of the investigation over a sufficient series of years, something more reliable might be obtained. Then, and not now, will be the time to speculate upon the causes of the differences.

#### STATISTICS OF PENNSYLVANIA HOSPITALS.

The table to which attention is now requested includes statistics of the seven hospitals in Pennsylvania, during a period of five years each, with the exception of that at Warren, which is of but four years. At all of them the period ended in, or with, the year 1884.

TABLE IX. — *Pennsylvania Hospitals.*

		Admitted.	Recoveries.	Per cent. of Recoveries.	Died.	Per cent. of Deaths.
Frankford, . . .	1880-84	196	58	29.59	39	19.90
Penna. Hospital, . .	" "	973	328	33.74	147	15.11
Dixmont, . . .	" "	968	216	22.31	277	28.61
Harrisburg, . . .	" "	772	121	15.97	174	22.54
Danville, . . .	" "	720	114	15.83	118	16.39
Norristown, . . .	" "	1,458	275	18.86	290	19.89
Warren, . . .	1881-84	847	92	10.86	113	13.34
Totals and mean per cent., . . .	-	5,934	1,204	20.29	1,158	19.51

The whole number of cases admitted was 5,934; the total of recoveries, 1,204; and the proportion of recoveries, 20.29 per cent. But Norristown and Warren are both new hospitals, and in their first years received many transfers from other institutions. Hence they are unfairly represented. We will therefore permit the statistics of only the last two years at these institutions to enter into the computation, retaining, for the others, the full period of five years. Those statistics are as follows: —

		Admitted.	Recovered.	Per cent. of Recoveries.	Died.	Per cent. of Deaths.
Norristown, .	1883-1884	777	195	25.09	219	28.18
Warren, .	1883-1884	388	70	18.04	80	20.62
Totals and mean per cent., .	-	4,794	1,102	22.98	1,054	21.98

By a substitution of these figures for those contained in the next preceding table, it will be found that the whole number of admissions is 4,794; the number of recoveries, 1,102; and the proportion of recoveries, 22.98 per cent., or a gain of 2.69 per cent. on the admissions, by the change.

At the four State Hospitals of Massachusetts, the proportion of recoveries in the three fiscal years ending in 1882, and the statistics of which form the basis of an article on curability in the annual report of this hospital for that year, was 22.25 per cent. This is seventy-three hundredths (.73) of one per cent. less than that of the Pennsylvania hospitals, according to these statistics. But this difference is more than counterbalanced by the fact that the Massachusetts statistics relate to *persons* only, while those of Pennsylvania relate to *cases*. In the latter all duplicate, triplicate and multiplicate recoveries are included, while in the former they are all *rejected*.

By the first of the two tables the deaths were 1,158, and their proportion on the admissions, 19.51 per cent. By the last table they were 1,054, and their proportion, 21.98 per cent., or an increase of 2.47 per cent. This increase is a natural result, as deaths are generally comparatively few in the first two or three years of a hospital's operations.

## TESTIMONY OF THE DANVERS HOSPITAL.

The experience at the newest State institution in Massachusetts is both instructive and disappointingly interesting, in the light which it throws upon the curable, or rather the incurable, condition of a great mass of the insane of the present epoch in this State.

The Danvers Hospital was opened for the reception of patients on the 18th of May, 1878; and, during the last four or five years, it has been directed by the highest grade of medical ability. It is, emphatically, one of those establishments upon which a flood of money has been poured, for the purpose of creating a curative institution as nearly perfect as possible under the light of existing knowledge. If abundance of pecuniary means in construction, together with what was believed to be the highest embodied ideal of architectural arrangements, could cure insanity more rapidly than a less costly and more simple structure, that hospital, most assuredly, was prepared for a demonstration of the proposition. It was evident, in its earliest years, that great efforts were made to arrive at such a demonstration, and thus prove that the curative advantages of the institution were an adequate, or — since the value of reason restored is not to be measured by dollars and cents — *more* than adequate compensation for the excess of expenditure. The usual custom of a large transfer of chronic and incurable cases from older hospitals or asylums to the new one, was here omitted, and the supply of patients was derived chiefly from current commitments. By this means the proportion of recent cases was much higher than usual from the first; and as Boston and five other large centres of population — which usually furnish a larger ratio of recent cases than the rural districts — are within a comparatively short distance from it, that proportion was raised still higher.

The fiscal year of the State institutions terminated four and one-half months after the hospital was opened. During this period 305 patients were admitted; and 26, or 8.82 per cent., discharged recovered. In the course of the next — 1878-79 — fiscal year, 653 were admitted; and 115, or 17.61 per cent., discharged recovered. In 1879-80 the admissions

were 581, and the discharge of recoveries 165, making the percentage of the latter 28.40. At this point the proportion of recoveries stopped upon its ascending scale, and took a retrograde direction. In 1880-81 the admissions were 497, the recoveries discharged 124, and the percentage 24.95; in 1881-82, admissions 512, discharged recoveries 89, percentage 17.38; in 1882-83, admissions 488, discharged recoveries 80, percentage 16.39; and in 1883-84, admissions 530, discharged recoveries 96, and the percentage of the latter 18.11.

The whole number of admissions, during the six years and four and one-half months, was 3,566; and that of discharged recoveries 695, or an equivalent of 19.49 per cent. In the first three full fiscal years, the admissions were 1,731, the discharged recoveries, 404, and the per cent. of the latter 23.34; and in the last three fiscal years, admissions 1,530, discharged recoveries 265, per cent. of recoveries 17.32. In the first period of three years, the deaths were 240, or 13.86 per cent. of the admissions; and in the last period 285, or 18.63 per cent. of the admissions. In the first period the deaths were 240, a per cent. of 59.4 on the recoveries; and in the last period, they exceeded the recoveries by 20, the deaths being to the recoveries as 57 to 53.

The new formulæ for statistics in Massachusetts give the ability still further to illustrate the character of the recoveries,—an ability rendered by the reports of no other State in the Union. The new tables were adopted in 1879, and first used in the reports for 1879-80. In the course of the five fiscal years ending Sept. 30, 1884, 554 patients, or cases, were discharged recovered from the Danvers Hospital; but 115 *persons*, who had been discharged recovered a total of 121 *times*, had returned to it. Within the last three years,—which are included in the foregoing years,—the discharged recoveries were 265; but, during the same time, 80 *persons*, representing 86 of those recoveries, were readmitted. So far as the community is concerned, these recoveries offset, or cancel, the same number of the discharged recoveries, and the added recoveries in the population, instead of being 265, are 265 minus 86, or 179, a diminution of about one-third, and only 11.70 per cent. on the number of admissions during that period.

## READMITTED RECOVERIES IN MASSACHUSETTS.

The annual report of this hospital for the fiscal year 1881-82, contains an article on the statistics of the State Hospitals of Massachusetts during the three years which had then elapsed since the adoption of the new series of tables. I desire to call attention to some points in the statistical history of recoveries, as illustrated by the same hospitals, during the two years since that article was published. For this purpose a table is here introduced which shows, for the fiscal years 1882-83 and 1883-84 :—

- 1st. The number of persons admitted who had previously been discharged recovered ;
- 2d. The number of times they had previously recovered ;
- 3d. The ratio of recoveries to persons ; and
- 4th. The number of persons discharged recovered during those two years, at each of the four hospitals aforesaid.

TABLE X. — *Two Years at Massachusetts Hospitals.*

HOSPITALS.	ADMISSIONS.			DISCHARGES.
	Persons Admitted who had previously been Discharged Recovered.	No. of times they had Recovered.	Ratio of Recoveries to Persons.	Persons Discharged Recovered.
Worcester, . . .	43	118	2.73	109
Taunton, . . .	64	147	2.29	145
Northampton, . .	21	39	1.85	53
Danvers, . . .	49	54	1.1	176
Totals, . . .	177	358	2.02	483

The number of persons admitted who had previously been discharged recovered, was 177 ; and they had been discharged recovered a total of 358 times. There were 181 more recoveries than persons. In other words, the number of recoveries was four more than twice as great as the number of persons. Each person had recovered, as a mean or average number, 2.02 times. Regarded, during the last two years, from a debt and credit point of view, those four institutions cancelled, by taking back from the general population, no less than 358 recoveries for which they had been credited.

During the same time they discharged recovered, 483 persons, which is only 125 more than the *recoveries* (not persons) which they had taken back.

*Summary.* A brief résumé of the most important results of the foregoing studies, expressed in the percentages of recoveries, may be found convenient for reference.

1. *Cases of first attack; duration less than three months.*

a. Earle's 8,316 cases, at 23 British asylums. Recoveries 48.71 per cent.

b. Chapman's 38,283 cases, at 46 British asylums. Recoveries 48.72 per cent.

2. *Cases of first attack; duration less than twelve months.*

a. Earle's 10,929 cases, at 23 British asylums. Recoveries 44.06 per cent.

b. Chapman's 60,409 cases, at 46 British asylums. Recoveries 43.79 per cent.

3. *Not first attack; duration less than twelve months.*

a. Earle's 4,768 cases, at 23 British asylums. Recoveries 55.37 per cent.

b. Chapman's 19,574 cases, at 46 British asylums. Recoveries 53.61 per cent.

In neither of the three foregoing classes have we any American statistics, because our institutions, in the tabulation of their cases, make no discrimination which would render such a classification possible.

4. *All cases of duration less than twelve months.*

a. Earle's 15,697 cases, at 23 British asylums. Recoveries 47.49 per cent.

b. Chapman's 69,983 cases, at 46 British asylums. Recoveries 46.52 per cent.

c. Earle's 8,063 cases, at 15 American institutions. Recoveries 38.59 per cent.

5. *All recoveries, calculated on all admissions.*

a. Chapman's 93,443 cases, at 46 British asylums. Recoveries 37.95 per cent.

b. Earle's 33,318 cases, at 39 [15+24] American institutions. Recoveries 29.15 per cent.

c. Earle's 23,052 cases; 3d period at 20 American institutions. Recoveries 29.91 per cent.

d. Earle's 14,372 cases; in one year at 58 American institutions. Recoveries 27.88 per cent.

It will be perceived that, so far as these statistics are an index, the recoveries in British asylums, both of recent cases and of all cases admitted, exceed the recoveries in the American institutions by between 8 and 9 per cent.

The most important general conclusions to be derived from the statistics included in this paper, are, first, that the old claim of curability in a very large majority of recent cases is not sustained, and that the failure to sustain it is more apparent and more striking than at any antecedent time; and, secondly, that the percentage of reported recoveries of all cases received at the hospitals in this country still continues to diminish.

It is believed that this diminution is, in part, to be attributed to the admission of a larger proportion of chronic cases, and of cases of greater degeneracy from their origin; in part, from the increasing though as there is good reason to believe still far from universal practice of not reporting *as recoveries from insanity* either mere restorations from a drunken debauch or forced temporary suspensions from habitual intoxication; and, in part, perhaps, from the adoption of a higher degree of improvement as the standard or criterion of recovery. It may be that there is still another cause of that diminution. Drs. Bucknill and Tuke, in their treatise upon insanity, mention what they call "cooked" statistics. It is possible that, in the United States, this class of published results is decreasing, and that the reported statistics are more generally given to the public in the spirit of a conscientious loyalty to scientific truth.

In conclusion I would express the hope, that the time is not far distant at which the American Association of Superintendents will so perfect its statistical system as to make a distinction between persons and cases, and enable the reader to learn how many of the reported recoveries are first recoveries and how many subsequent to the first. This improvement was made in the Massachusetts statistical tables, as already mentioned, in 1879; and in those of the British Medico-Psychological Association in 1883. Surely the American Association ought not to lag far behind in the matter.

## CHRONOLOGY OF THE HOSPITAL.

[N. B. The years are the calendar years, and not the official years of the hospital.]

- 1855.** Legislative Act, authorizing the construction of the hospital by a board of three commissioners, approved by the Governor, May 21st.  
 Enos Clark lot bought, northeast corner of the farm; 24a. Deed executed Sept. 3. This lot was conveyed back to Mr. Clark and reconveyed to the Commonwealth, May 13, 1856.  
 William Parsons lot bought; 28a. 25r. Deed executed Sept. 4.  
 Samuel Day lot bought; 5a. 16r. Deed executed Sept. 4.  
 George Ellsworth's farm and buildings bought; 100a. 94r. Deed executed Sept. 5.  
 Samuel Phelps lot bought; 9a. 60r. Deed executed Sept. 6.  
 Silas D. Clark lot bought; 5a. 20r. Deed executed Sept. 6.
- 1856.** Legislative Act, establishing a board of trustees, approved by the Governor, June 3.  
 July 4. Corner-stone laid.  
 July 4. First meeting of the board of trustees, at the Warner House.
- 1857.** Oct. 1. Term of building commissioners expired.  
 Oct. 1. Trustees voted to proceed to complete the building.
- 1858.** Feb. 19. By-laws, as reported by Mr. Boynton, adopted.  
 August. Hospital opened.
- 1859.** The hospital was at first supplied with water by Mr. Damon, from his pond on Mill River.  
 March 16. A break occurred at the west end of Mr. Damon's dam, destroying the water power. Water was brought in barrels, and pumped into the tank, until the twenty-fifth of the month.
- 1860.** A high, wooden, picket fence built next the county road, from the farm house westward.  
 Foundation walls for the barn laid.  
 A brick pump house, with boiler and pump, for forcing water to the hospital, was erected on the premises near Mr. Damon's dam. It stood until after water was taken from the public water works, and was then taken down.
- 1861.** Five small lots of land bought, one-eighth of an acre each. Deed executed by William H. Prince, May 13.  
 July 31. The barn and the adjoining piggery are finished.  
 August 31. The coal-house is finished. This is the coal-house adjoining the boiler-room. Prior to its construction, a roadway, which was laid out around the whole building, passed over its site.  
 The bowling alley was erected this summer.
- 1862.** The reservoir at the spring, southwest of the hospital, and on the premises, was made, and the adjoining pump house erected.  
 November. Cooking range and broiler put in the kitchen.



- 1863.** March 31. The water works at the spring are in successful operation. The power was a caloric engine, taken on trial. Several breakages had occurred. There were others afterwards, and, on the 5th of August, it was voted not to accept the engine.
- 1864.** A new steam forcing-pump put into the house at the spring. The four original flue steam boilers taken out, and replaced by tubular ones.  
All the pipes for the distribution of water throughout the house were taken down and cleaned out.  
The roadway at the main entrance from the county road graded down. This entrance was closed in the spring of 1869. It was half-way down the hill, east of the present entrance.
- 1865.** Mattress making by the patients introduced.  
Storeroom for groceries and meats fitted up, and an outside door opening directly into it made.  
A storeroom for charcoal made in the north basement.  
A paint shop and a storeroom for vinegar and soap made in the south basement.  
Partitions made at the foot of the stairways, and across the halls leading to the laundry and the sewing-room.  
Coal-house at the railroad built.  
A painter hired as a permanent employee.  
Hill east of lower or main entrance partly graded down.  
Peat meadow lot bought of W. C. Rice; 1a. 90r. Deed executed Sept. 19.  
Vestibules to the superintendent's apartments, on the second and third floors, partitioned off from the rotunda, and doors made from them into the bath-rooms.  
Began to grade down the bluff next the county road, between the farm-house and the lower entrance.  
Philosophical and chemical apparatus bought.  
Storeroom for sand made in basement.  
A steam whistle put in, the sound of the bell not being sufficiently loud for all purposes.  
New road made in front of the north wing. The original road was much nearer the building, and extended around the wing.
- 1866.** Two iron water tanks put in north attic. All the original tanks were of wood.  
Hay-scales bought and put in place.  
Chapel painted in water colors.  
Doors put upon the staircases, between the third and fourth halls, both north and south.  
An additional (fourth) steam boiler put in.  
Iron settees put in the rotunda. Up to this time there had been no furniture, except the large boxes of plants, and no pictures in either of the three stories of the rotunda.  
Two cylindrical iron water-tanks put in the attic of the south wing.
- 1867.** Sewing-room doubled in size, and the dry-goods cases in it made. Case made for philosophical apparatus.  
New road finished across the lawn, in front of the south wing, and the old one closed.

- Horse-chestnut trees set in front of the south wing.  
Bath-rooms, lavatories, and water-closets of the south wing remodelled, and the ventilation improved.  
Land for a depot for peat, or "meadow-muck," bought of William Foley; 80r. Deed executed June 18.  
Carriage road made across west end of west meadow.  
Floor of lower 3d hall, south, relaid. Nearly all of the hall floors were of maple, insufficiently seasoned. After this date, one or more of them was relaid every year, until 1877, when only one of the original floors of the twenty-four halls remained.  
The brownstone piers, for a gateway at the upper entrance, were built.
- 1868.** Iron gates at the main entrance put up. The former main entrance was closed in the spring of 1869.  
Exchange of land with Samuel Day, reducing the number of boundary lines from five to two. Day's deed executed Sept. 30. (See Registry of Deeds, Book 255, p. 307.)  
The stone wall of the south barnyard built.  
Book-case, lower rotunda, north side, made; also nearly fifty wardrobes.
- 1869.** Piggery removed twenty-nine feet westwardly, its height to the eaves increased eighteen inches, and the shed connecting it to the barn erected.  
The capacity of the coal-house at the railroad was doubled by an extension.  
Grading of the bluff, next the county road, finished, and a wooden picket-fence made from the main entrance to the foot of the hill.  
Samuel Parsons lot, south of county road, bought; 7a., more or less. Deed executed June 5. (See Registry of Deeds, Book 262, p. 253; see, also, Book 268, p. 327.)  
Curved iron fence at entrance gate put up.  
Four additional cases, for books, etc., put into the rotundas.  
New building, for laundry and other purposes, erected.
- 1870.** New laundry put in operation in January. The old laundry was over the boiler-room and the engine-room.  
A severe hall-storm, on the 20th of May, broke about five hundred panes of glass in the hospital building.  
Barn remodelled. Cow stable changed from north to south side.  
The frame strengthened by larger timbers.  
Carpenter's shop built on the walls of the coal-house. The old shop was in the basement of the south wing of the hospital.  
Shop for engineer partitioned off from old laundry and carpenter's shop.  
Screw-cutting and drill machines put in.  
Two more iron water-tanks put in attic of north wing.  
Gold's radiators put in the basement of the second sections of both wings.  
Old clothes-drying room divided, making a room for the flat-heater, and a lodging-room.
- 1871.** Floor of old laundry, now lumber-drying room, relaid.  
Cart shed built at the northwest corner of the bowling alley.

Original heating apparatus taken out of the basement of the south wing, the four air-chambers united into one, the track of the railroad changed, and Gold's radiators put in.

Began to take water of the Northampton Water Works Co., December 25.

- 1872.** Old blacksmith's shop, under superintendent's office, fitted up as a storeroom for groceries.

Walls of upper 4th hall, south, painted in oil. Since that time, and prior to 1884, the walls of all the patients' halls, dining-rooms and dormitories, have been similarly painted.

Floor of the middle rotunda relaid.

Sixteen fire hydrants placed in the wings, and four out of doors.

Cart shed extended across west end of bowling alley.

Old folding-room of the laundry divided by a permanent partition, and an outside door, with platform and steps, made, furnishing apartments for the engineer and his family.

Basement of north wing remodelled, and new radiators put in to correspond with that of the south wing, after the change in 1871.

Five forty-inch ventilators put upon the roof of the hospital.

Floor of the laundry folding-room relaid.

The walls of all the airing courts were erected and finished before November 1.

A large storeroom for apples fitted up in the basement of the south wing. In the original structure this room had no light, as there were no windows beneath the water table on the front of the building.

- 1873.** Room opposite the sewing-room divided by a permanent partition, making a room for the seamstress and another for storage.

The floors of twenty of the twenty-four halls have now been relaid.

The floor of the upper rotunda was relaid.

All the distributing pipes for water were taken out and replaced by new ones, those for cold water being lined with cement.

Elevator from the folding-room to the sewing-room put in, and the laundry and the sewing-room connected by a narrow staircase.

Circular saw put in.

One hot water tank, in the rotunda basement, taken out and replaced by a new one.

All the bath-rooms, lavatories, and water closets of the north wing remodelled, with new floors and larger sinks.

Two of Wright's bucket-plunger steam-pumps put in.

The old clay pit, southeast of the hospital, on land received, in exchange, from Samuel Day, was filled by grading down the adjoining bluffs.

The subordinate office of steward was created.

New cooking apparatus, broiler excepted, put in.

Oven in bakery rebuilt.

- 1874.** Clarke orchard bought; 15a. 79r. Deed executed May 15th.

Iron receiving-tank put in the fourth story of the centre. The old tank was of wood, and sixteen feet in diameter.

A new steam cylinder affixed to the engine, increasing its power about one-third.

A ventilating pipe from the kitchen to the large chimney put in. Letter boxes put in the halls.

An additional board sheathing put upon all the cupolas.

The lumber house, west of the barn, finished in October. Its western section to be a poultry house.

The stone viaduct for the main sewer, in the west meadow, was finished in November.

**1875.** New and improved elevators made, and their walls sheathed.

A large bath-room in the basement of the 8d halls, north, was made.

A room for storage made, on north side of centre attic.

Oliver Edwards lot and dwelling, adjoining the S. Day lot, and near the foot-path entrance, bought. It contained about 25 square rods. Deed executed June 2d.

Smith and Prindle lot bought, with dwelling. It adjoined the Edwards lot on the west, and contained 23r. Deed executed June 5th.

The west half of the Samuel Day homestead land bought; 5a. 66½r. Deed executed June 7th. This includes the sites of the brick-yard and saw-mill.

The four old steam boilers taken out, and replaced by three larger ones.

The south storeroom in centre attic was made.

A brick sewer, for surface water, down the hill southeast of the hospital, was made; length 436ft., including branch to north catch-basin.

A brick sewer for surface water was made down the hill southwest of the pump house; length 118ft.

The old water pipes from Mill River to the front portico, about 1,600ft., were taken up, and replaced by new ones.

The lean-to, adjoining the barn on the west, was erected.

A brick sewer for surface water, and opening into Mill River, was made across the Samuel Day lot and the Samuel Day homestead land; length about 570ft., calibre 2ft.

**1876.** A brick partition wall erected, from foundation to attic, between the bath-rooms and the small dormitories of the third halls south.

All the woodwork, including floors and joists, of the bath-rooms, lavatories, and water-closets of the three second halls, south, was taken out, and the rooms rebuilt.

The floor of the ironing-room was relaid.

Ground graded near the entrance of the foot-path, from the county road, and a row of elm and maple trees set from the main entrance to the Samuel Day house, near the bridge.

The Samuel Day homestead bought; 5a. 99r. Deed executed June 22d.

The largest barn on the Day homestead was taken down, and set up near the barn at the hospital.

A brick sewer for surface water was made down the hill east of the east grove; length 275ft., calibre 18 inches.

An iron fence erected from the entrance gate, along the line of the road, to the southeast corner of the S. Day homestead lot. The fountain in front of the house was set up, but not put in operation.

- 1877.** The Enos Clark pasture, adjoining the hospital farm on the west, was bought; 90a. 45r. Deed executed February 9th.

The walls of the engine-house were raised three feet, and a new slated roof put on. The old roof was flat and tinued.

The embankment around the fountain was finished, and the fountain put in operation.

The original brick front portico, which had tried to tumble down for several years, was taken down and replaced by one of brown-stone.

A part of the bank of Mill River, in the west meadow, was ripped.

An iron fence was erected from the entrance gate along the road to the southwest corner of the farm, at the boundary of the land of John H. Fowle.

The John H. Fowle lot aforesaid was bought; 10a. 21r. Deed executed December 15th.

- 1878.** Picket fence built across west boundary of farm, and along the county road, from the iron fence westward.

Ferris lot bought; 1½a., more or less. Deed executed April 4th.

An ice-house built at Mill River, a few feet north of the old one. The stone wall of the north barnyard erected.

Hill and roadway graded on the south boundary of the Fowle lot, and the iron fence extended across part of the lot.

A concrete sidewalk laid from the entrance gate to the bridge at Mill River; and a similar walk from the entrance gate of the foot-path to the road at the top of the hill, on the front lawn.

A brick sewer for surface water put in on the south side of the county road, along the lower half of the hill. This sewer was extended to the top of the hill in 1879; calibre 2ft.

A brick sewer for surface water put in on the north side of the county road, from the main entrance nearly to the bottom of the hill; calibre 2ft.

The stonework of the bridge for a road into the west pasture, south of the paper mill, was built.

A severe freshet, on the 10th of December, carried away both ice-houses.

- 1879.** One ice-house rebuilt in January and filled.

Justin Thayer peat-land bought; about 42r. Deed executed April 5.

The E. E. Denniston peat-land bought; 2a., more or less. Deed executed June 18.

An iron fence erected on the south side of the county road, from the northwest corner of the Samuel Parsons lot to the foot of the hill. This required much grading of the adjoining bluff.

A row of elm trees set on the Parsons lot, near the iron fence.

A hurricane, on the 16th of July, blew down about fifty trees on the farm.

The brick horse-barn was extended ten feet northwardly, its walls raised three feet, and a new slated roof put on. The old roof was flat and tinued.

The W. B. Welton lot, adjoining the Parsons lot on the south, was bought; 5a. 17r. Deed executed October 6.

The knolls at the eastern boundary of the Parsons and Welton lots were graded, and about 500 cart-loads of clay taken from them was spread upon the garden.

A brick building, for a scullery and a storeroom for charcoal, was erected.

About three hundred feet of the river bank, in the west meadow, was rip-rapped.

- 1880.** A wire screen was put upon the balustrade of the rotunda stairs in April.

Norway spruce trees set between the elms, on the south side of the hill down the road.

The western division of the main sewer, north of the barn, rebuilt with brick.

The stone bridge for the road into the Enos Clark pasture was extended about twenty-two feet westwardly.

In the autumn, the knolls on the eastern boundary of the Parsons lot were further graded, the road along that boundary relaid by the county commissioners, and the iron fence extended along the line of the road.

An ice-house, near the hospital, was erected.

- 1881.** A fire-pump put into the engine-room, a subterranean reservoir constructed, hydrants placed in the centre building, and all the pipes necessary for the successful working of the pump were laid.

Two sections of the river bank in west meadow, an aggregate of four hundred and sixty-five feet, were rip-rapped.

A road was laid out from the north grove to the northeast part of the farm, near the ice-house at the pond on Mill River.

Concrete walks were laid to the barn and the horse-barn; also between the rear building and the west outside door of the north wing.

- 1882.** A new road, more remote from the hospital than the old one, was made through the grove west and north of the building.

A road to the west meadow made near the pump-house.

Road graded west of the sand-pit, adjoining the Fowle lot.

Ansel Wright peat-land bought; 100r., more or less. Deed executed May 24.

Copper lightning-rods put upon the hospital and the barns.

A concrete sidewalk laid from the front door across the lawn.

An ice-pond made in the west (E. Clark) pasture.

A building erected over the reservoir at the pump-house.

- 1883.** Telephone put in, in February.

The houses and lots of Hiram Day, Ellen M. Day, and S. C. Lacore were bought. Deeds executed February 2d. These lots are at the southeast corner of the farm, near the bridge.

The floor of the sewing-room was relaid.

The new road through the west and north grove was graded and finished.

The bowling alley was taken down, and an excavation for the cellar of a large building for workshops and storage was begun, in June. The excavation was continued, and more than one-half of the cellar wall built, when the work was necessarily suspended for the season.

One hundred feet of the eastern section of the main sewer, which was made of stone, and a part of which was under the site of the proposed building, was taken up, and replaced by a cylindrical one of brick.

A wood-house was made by an addition to the scullery and coal-house.

A high wind, on the 28th of December, blew down the chimney of the pump-house.

**1884.** A new chimney, 65 feet 4 inches in height, was built at the pump-house.

Granite gate-posts at the north barnyard set up in May.

A fire-proof building for oils, paints, etc., was built.

The Day barn was raised and extended westwardly, by an addition of 40 feet, and a cellar 120 feet long and 40 feet wide made beneath the whole. A poultry-house, connected with this barn, was also erected.

An addition of 40 feet was made to the cart-shed.

Work on the cellar for the new building, on the former site of the bowling alley, was resumed in May. The building was subsequently erected, and so far finished that the cellar and the first story were used for storage in October.

The ice-house at the pond on Mill River was taken down, and set up at the ice-pond in the west pasture.

**1885.** The Day pasture, on the Easthampton road, was bought; 23a. 21r. Deed executed June 13.

A small tract of land between the Clarke orchard and the county road was bought; 14r., more or less. Deed executed September 9.

One of the knolls directly east of the hospital was graded down, and 1,238 feet of brick culvert and heavy stone under-drain put in, on the flat northeast of it.

October 4. A tempest prostrated many valuable trees in the east grove and upon other parts of the premises.

Under a contract for an independent pipe from the main, a new route for the hospital's supply of water, by the way of Washington Avenue, was selected, and the pipe laid in September and October. Water taken by the new route, Oct. 20.

#### ACKNOWLEDGMENTS.

A very large majority of the exercises in the chapel on the evenings of secular days, are performed by the medical officers of the hospital; but we are indebted for contributions

thereto within the past year, — to Miss Longley and Miss Shattuck for two concerts ; to Miss Radcliff for a lecture on the Methods of Instruction in the Institutions for the Blind ; to Dr. T. W. Meekins for stereoptic exhibitions ; to Mr. J. Pickard for an evening reading ; and to Mr. Burnell for two lectures.

Aside from the collection of stereoptic “slides,” or pictures, belonging to Dr. Meekins, others have from time to time been purchased for the hospital, until it has accumulated more than fourteen hundred of them, illustrative of a wide range of subjects.

Acknowledgments are also due to Miss Florence Austin, for a quantity of illustrated and other newspapers, as well as for a Christmas box containing many presents for patients ; to Mrs. S. S. Jocelyn, for illustrated newspapers and fancy articles for the female patients ; to Miss C. E. Butterworth, for a collection of religious newspapers ; to S. E. Bridgman, Esq., for newspapers ; and to the publishers of the “Christian Register” and the “Staaten Zeitung,” for one copy each of those papers throughout the year.

#### CONCLUSION.

On the 30th of September, the last day of the official year, all the officers who began the year in the hospital were still at their posts. The only change in the staff in the meantime was the addition of one to their number. In pursuance of the law requiring a female physician in each of the State Lunatic Hospitals, Dr. Emily F. Wells was appointed as Assistant Physician in December, 1884. She entered upon the duties of the office on the 1st of January, 1885, and has performed them to my entire satisfaction.

In the staff of subordinate officers at the beginning of the year there has been but one change. Miss Mary Ward, who had been entrusted with the chief charge of the sewing department for many years, has recently resigned the office, and Miss Gertrude C. Arnold has been selected as her successor, but had not assumed the duties of the position at the end of the official year.

In submitting this, the last official communication which it will become my duty as well as my pleasure to present to



your honorable board, it is natural that a retrospective glance should be thrown over the comparatively long period during which this official relationship has existed between us, for the purpose of tracing the gradual growth of the institution committed to your care. At the beginning of that period it was still comparatively in its infancy. It is very far from my intention to follow its subsequent development. A sufficient history has been given, from year to year, in the annual reports. Suffice it here to say, that, in regard to the constant unfolding of the resources of the institution, and the continual additions to the means of rendering it a comfortable and curative residence for its inmates, as well as to that application of all those resources and means which is implied by the word "management," it would appear that neither you, as the directing body, nor the administrative officers whose duties include the oversight of all the details of the organization, can reasonably complain of the very general judgment of success which has been awarded by both the government and the people.

For myself it may be said that, in this review of the past, no recurring memory, and no suggestion of reflection, has impressed me more forcibly than this,—that I have been especially fortunate in my official relations; fortunate, not alone in the persons of the officials, but in the permanence of our association or connection. Looking first to the associate officers and the subordinate officers at the heads of departments, we find that Dr. Nims, first as assistant physician and subsequently as assistant superintendent, has been with me nearly seventeen years, and Dr. Pickard more than eight years. Dr. Hall's term exceeds three years, which, though not very long, is sufficient to have determined his qualifications for a longer one. Mr. Welton has held the office of clerk and general purchaser, nineteen years. Mr. Wright, the farmer from the opening of the hospital, remained in that position more than seventeen years after my appointment, and was succeeded by Mr. Mercier, the present incumbent, who had, at that time, been employed as second to Mr. Wright more than fourteen years. Mr. Morse was elected engineer in February, 1865, and has consequently held that office more than twenty years. Mr. Shufelt, an

attendant when I came, afterwards acted as supervisor over sixteen years, resigned in 1880, and was succeeded by Mr. Gallivan, who still holds the position and had previously been an attendant more than seven years. Miss Gilbert, first employed over three years as an attendant, has now been supervisor of the department for females sixteen years. The services of Mr. Rice, as steward and director of the kitchen, not only cover the whole period of my superintendence, but extend to a several years anterior date; and Miss Ward, who recently left, had been in charge of the sewing-room over thirteen years. Upon the faithfulness to duty and to the interests of the hospital of all these officials, it is not necessary here to enlarge. Their long continuance in office is, of itself, a more than sufficient encomium.

It will readily be perceived that, with a corps of such well-trained and efficient officers, acquainted with every ramification of detail in their respective duties, and ever ready to perform those duties promptly, it is comparatively easy to arrive at the results which constitute the beauty and the excellence of a public institution. Nor is it less manifest that, in this co-operation, they do much toward lifting the burden of care, anxiety, labor and responsibility from the superintendent.

Nor, on the other hand, have I been less favored in the individual constituents and in the permanency of membership of the Board of Trustees. The board was originally constituted in 1856, two years prior to the opening of the hospital. Between that time and the time of my appointment to the superintendency, in 1864, a period of only eight years, the changes of members were so frequent that ten new men had appeared upon it, and six of them, together with four of the five original members, had disappeared from it. During the nearly threefold longer period of twenty-one years intervening between that time and this, with the exception of the appointments under the recent law increasing the number on the board, only eight new members have been elected. Two of them have left by expiration of term, one died in office, and five still remain. There was one period of nine years, from 1866 to 1875, during which the board remained a unit, without a single change.

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This continuity of membership, and the consequent stability of the governing board, and the mutual confidence and harmony of action which have ever existed between it and the superintendent, must be regarded as important factors in the production of whatever favorable results may have been achieved in the management of the hospital.

In severing the official relation which has so long and, upon my part, so happily existed between us, I carry with me the abiding sentiment of sincere respect and regard for every member of the board during my connection with the institution; and among the most prominent of all my agreeable memories, will be the fact that no unpleasant word has ever passed, either way, between me and any one of them.

PLINY EARLE.

OCTOBER 8, 1885.

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# APPENDIX.

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## 2.\* Monthly Admissions, Discharges and Averages.

MONTHS.	ADMISSIONS.			DISCHARGES (including deaths).			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1881.</b>									
October, . . .	4	6	10	6	8	14	229.9	233.16	463.06
November, . . .	4	7	11	3	3	6	227.13	233.9	461.03
December, . . .	3	8	11	6	2	8	224.42	238.61	463.03
<b>1883.</b>									
January, . . .	10	3	13	-	2	2	229.84	242.32	472.16
February, . . .	2	3	5	2	2	4	235.	243.53	478.53
March, . . .	9	6	15	6	5	11	236.68	243.55	480.23
April, . . .	7	8	15	4	4	8	239.73	246.53	486.26
May, . . .	7	9	16	11	13	24	237.87	245.51	483.38
June, . . .	5	4	9	5	5	10	235.7	243.1	478.8
July, . . .	5	8	13	9	5	14	236.13	246.26	482.39
August, . . .	4	5	9	3	5	8	234.55	248.06	482.61
September, . . .	6	3	9	5	9	14	235	245.2	480.2
Total of cases, . . .	66	70	136	60	63	123	-	-	-
of persons, . . .	63	67	130	59	62	121	-	-	-
Daily average for the year, . . .	-	-	-	-	-	-	233.47	242.47	†† 475.94

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals were obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

†† One man and one woman admitted, and one man and two women discharged, as *not insane*, are not included in the following tables.

## 3. Received on First and Subsequent Admissions.

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	52	45	97	-	-	-
Second, . . . . .	8	15	23	1	4	5
Third, . . . . .	3	4	7	-	2	2
Fourth, . . . . .	1	1	2	3	3	6
Fifth, . . . . .	-	2	2	-	3	3
Twelfth, . . . . .	1	-	1	4	-	4
Fifteenth,* . . . . .	-	1	1	-	-	-
Sixteenth,* . . . . .	-	1	1	-	11	11
Total of cases, . . .	65	69	134	8	23	31
of persons, . . .	62	66	128	3	9	12

\* The fifteenth and sixteenth admissions were of the same person. Hence her previous recoveries are inserted only after the last admission.

4. *Ages of Persons Admitted for the First Time.*

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	2	—	2	—	—	—
Fifteen years and less, . . . . .	1	2	3	2	—	2
From 15 to 20 years, . . . . .	4	4	8	2	5	7
20 to 25 years, . . . . .	8	4	12	10	4	14
25 to 30 years, . . . . .	13	9	22	14	6	20
30 to 35 years, . . . . .	2	8	10	5	8	13
35 to 40 years, . . . . .	6	2	8	4	6	10
40 to 50 years, . . . . .	4	6	10	4	6	10
50 to 60 years, . . . . .	5	3	8	7	5	12
60 to 70 years, . . . . .	2	1	3	2	3	5
70 to 80 years, . . . . .	—	—	—	1	—	1
Over 80 years, . . . . .	—	—	—	—	2	2
Unknown, . . . . .	5	6	11	1	—	1
Total of persons, . . . . .	52	45	97	52	45	97

5. *Parentage of Persons Admitted.*

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	—	—	1	1	1	1
New Hampshire, . . . . .	2	1	—	—	2	1
Vermont, . . . . .	—	1	1	2	1	3
Massachusetts, . . . . .	18	17	17	17	35	34
Rhode Island, . . . . .	1	—	—	1	1	1
Connecticut, . . . . .	2	2	1	2	3	4
New York, . . . . .	—	1	1	2	1	3
Pennsylvania, . . . . .	—	—	1	1	1	1
Virginia, . . . . .	—	—	1	—	1	—
Canada, . . . . .	5	5	2	2	7	7
England, . . . . .	4	4	1	3	5	7
Ireland, . . . . .	22	22	32	28	54	50
Scotland, . . . . .	—	1	1	1	1	2
France, . . . . .	1	1	—	—	1	1
Germany, . . . . .	1	1	1	1	2	2
Hungary, . . . . .	—	—	1	—	1	—
Bohemia, . . . . .	1	1	—	1	1	2
Switzerland, . . . . .	1	1	—	—	1	1
Sweden, . . . . .	—	—	1	1	1	1
Unknown, . . . . .	4	4	4	3	8	7
Total of persons, . . . . .	62	62	66	66	128	128

6. *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	15	16	31
Hampden County, . . . . .	24	28	52
Berkshire County, . . . . .	12	14	26
Franklin County, . . . . .	10	7	17
Worcester County, . . . . .	—	1	1
Suffolk County, . . . . .	1	—	1
Total of persons, . . . . .	62	66	128
Cities or large towns,* . . . . .	27	27	54
Country districts, . . . . .	35	39	74
Total of persons, . . . . .	62	66	128

\* Containing not less than 10,000 inhabitants.

7. *Civil Condition of Persons Admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	31	23	54	19	17	36	2	4	6	—	1	1
Second, . . . . .	5	4	9	1	2	3	—	7	7	—	—	—
Third, . . . . .	1	2	3	1	2	3	—	—	—	—	—	—
Fourth, . . . . .	—	1	1	1	—	1	—	—	—	—	—	—
Fifth, . . . . .	—	—	—	—	1	1	—	1	1	—	—	—
Twelfth, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—
Sixteenth, . . . . .	—	1	1	—	—	—	—	—	—	—	—	—
Total of persons, . . . . .	38	31	69	22	22	44	2	12	14	—	1	1



8. *Occupations of Persons Admitted.*

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
Student, . . . . .	4	Teacher, . . . . .	1
Commercial traveller, . .	1	Copyist, . . . . .	1
Telegraph operator, . . .	1	Housekeeper, . . . . .	5
Druggist and chemist, . .	1	Seamstress, . . . . .	1
Watchmaker, . . . . .	1	Merchant's wife, . . . .	1
Paper maker, . . . . .	2	Farmer's wife, . . . . .	1
Farmer, . . . . .	8	Machinist's wife, . . . .	1
Wallet maker, . . . . .	1	Mechanic's wife, . . . .	1
Cigar maker, . . . . .	2	Engineer's wife, . . . .	1
Mechanic, . . . . .	2	Moulder's wife, . . . . .	1
Machinist, . . . . .	2	Stonecutter's wife, . . .	1
Armorer, . . . . .	1	Slater's wife, . . . . .	1
Carpenter, . . . . .	3	Carpenter's wife, . . . .	2
Livery-stable keeper, . .	1	Shoemaker's wife, . . . .	1
Steel polisher, . . . . .	1	Railroad employee's wife,	1
Metal worker, . . . . .	1	Laborer's wife, . . . . .	8
Section foreman on railroad,	1	Tailor's wife, . . . . .	1
Baker, . . . . .	1	Armorer's daughter, . . .	1
Mill operative, . . . . .	6	Carpenter's daughter, . .	1
Laborer, . . . . .	15	Paper maker, . . . . .	3
Peddler, . . . . .	1	Box maker, . . . . .	1
None, . . . . .	6	Mill operative, . . . . .	8
Total of persons, . . .	62	Peddler, . . . . .	1
		Servant, . . . . .	10
		Unknown, . . . . .	1
		None, . . . . .	11
		Total of persons, . . .	66

9. *Reported Duration of Insanity before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER ADMISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	2	—	2	—	—	—	2	—	2
Under 1 month, . . . . .	4	6	10	—	—	—	4	6	10
From 1 to 3 months, . . . . .	10	4	14	—	—	—	10	4	14
3 to 6 months, . . . . .	7	7	14	—	—	—	7	7	14
6 to 12 months, . . . . .	11	4	15	—	1	1	11	5	16
1 to 2 years, . . . . .	3	5	8	—	—	—	3	5	8
2 to 5 years, . . . . .	6	6	12	3	8	11	9	14	23
5 to 10 years, . . . . .	4	2	6	1	7	8	5	9	14
10 to 20 years, . . . . .	1	3	4	3	3	6	4	6	10
Over 20 years, . . . . .	—	2	2	3	3	6	3	5	8
Unknown, . . . . .	4	6	10	3	2	5	7	8	15
Total of cases, . . . . .	52	45	97	13	24	37	65	69	134
of persons, . . . . .	52	45	97	12	22	34	62	66	128
Average of known cases, . . . . .	14 $\frac{2}{5}$	4 $\frac{2}{5}$	3 $\frac{8}{5}$	13 $\frac{1}{20}$	10 $\frac{8}{5}$	11 $\frac{1}{4}$	3 $\frac{2}{3}$	6 $\frac{2}{3}$	4 $\frac{2}{3}$

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated. Two patients are included who are in the first division, they having been admitted for the first and the second time within the year. Three other patients are repeated, as they were received twice each, on admissions subsequent to the first. As the united duration of their disease was *fifty-three years*, the repetition, or duplication of it, although called for by the circumstances, unjustly swells the average duration, and consequently, in my opinion, very materially impairs the value of the table. The congenitals are not included. — P. E.

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Totals.
Mania, . . . . .	38	50	88
epileptic, . . . . .	2	2	4
paretic, . . . . .	2	1	3
Melancholia, . . . . .	8	11	19
Dementia, . . . . .	10	4	14
epileptic, . . . . .	2	1	3
paretic, . . . . .	1	—	1
senile, . . . . .	1	—	1
Congenital idiocy, . . . . .	1	—	1
Total of cases, . . . . .	65	69	134
of persons, . . . . .	62	66	128

*11. Probable Causes of Insanity in Persons Admitted.*

CAUSES.	Males.	Females.	Totals.
<i>Physical.</i>			
Ill-health, . . . . .	3	7	10
Epilepsy, . . . . .	3	3	6
Intemperance, . . . . .	5	—	5
Overwork, . . . . .	3	1	4
Hereditary, . . . . .	2	2	4
Masturbation, . . . . .	3	—	3
Injury of head, . . . . .	2	1	3
Sunstroke, . . . . .	2	—	2
Puerperal, . . . . .	—	2	2
Change of life, . . . . .	—	1	1
Overwork and trouble, . . . . .	1	—	1
Overwork and use of narcotics, . . . . .	1	—	1
Mountain fever, . . . . .	1	—	1
Malaria, . . . . .	1	—	1
Syphilis, . . . . .	1	—	1
Paresis, . . . . .	—	1	1
Spinal disease, . . . . .	—	1	1
Total of physical, . . . . .	28	19	47
<i>Mental.</i>			
Business trouble, . . . . .	1	—	1
Domestic trouble, . . . . .	1	1	2
Religious excitement, . . . . .	—	3	3
Fright, . . . . .	—	1	1
Total of mental, . . . . .	2	5	7
Total of physical, . . . . .	28	19	47
Unknown, . . . . .	32	42	74
Total of persons, . . . . .	62	66	128

12. *Relation to Hospitals of Persons Admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Totals.
Never before in any hospital, . . . . .	49	41	90
Former inmates of this hospital, . . . . .	8	21	29
Former inmates of other hospitals in this State,	1	2	3
Former inmates of this hospital and of other hospitals in this State, . . . . .	—	1	1
Former inmates of hospitals in other States, . .	—	—	—
Former inmates of this hospital and of hospitals in other States, . . . . .	4	—	4
Former inmates of other hospitals in this State and of hospitals in other States, . . . . .	—	1	1
Total of persons, . . . . .	62	66	128

## 13. Discharges Classified by Admission and Result.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	14	11	25	2	3	5	10	13	23	6	10	16	15	10	25	47	47	94
Second, . . . . .	2	1	3	1	-	1	1	4	5	2	3	5	1	1	2	7	9	16
Third, . . . . .	1	-	1	1	-	1	1	-	1	1	1	2	-	-	-	4	1	5
Fourth, . . . . .	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Fifth, . . . . .	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1
Eighth, . . . . .	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1
Twelfth, . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Fifteenth, . . . . .	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Total of cases, . . . . .	17	12	29	4	5	9	13	17	30	9	16	25	16	11	27	59	61	120
of persons, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	60	118

14. *How Supported.*

SUPPORTED AS—	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . . .	21	22	43	82.29	72.15	154.44
Town patients, . . .	36	38	74	118.48	143.10	261.58
Private patients, . . .	9	10	19	32.62	27.20	59.82
Total of cases, . . .	66	70	136	233.39	242.45	475.84*

\* This weekly average is one-tenth of one less than the daily average, 475.94.

15. *Cases Discharged Recovered—Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . .	3	2	5	—	—	—	—	—	—
From 1 to 3 months, . . .	5	3	8	10	3	13	2	—	2
3 to 6 months, . . .	1	4	5	3	3	6	4	3	7
6 to 12 months, . . .	6	—	6	2	3	5	2	1	3
1 to 2 years, . . .	—	2	2	2	2	4	6	4	10
2 to 5 years, . . .	1	—	1	—	—	—	1	2	3
5 to 10 years, . . .	—	—	—	—	—	—	1	—	1
10 to 20 years, . . .	—	—	—	—	1	1	—	1	1
Over 20 years, . . .	—	—	—	—	—	—	—	—	—
Unknown, . . .	1	1	2	—	—	—	1	1	2
Total of cases, . . .	17	12	29	17	12	29	17	12	29
Total of persons, . . .	17	12	29	17	12	29	17	12	29
Average of known cases (in months), . . .	8½	5½	7¼	5½	10½	11¾	13½	27½	19½

## 16. Cases Resulting in Death — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	1	—	1	1	—	1	1	—	1
Under 1 month, . . . . .	—	—	—	1	1	2	—	—	—
From 1 to 3 months, . . . . .	1	2	3	1	1	2	—	—	—
3 to 6 months, . . . . .	1	1	2	—	—	—	1	1	2
6 to 12 months, . . . . .	2	1	3	—	—	—	—	—	—
1 to 2 years, . . . . .	2	—	2	3	1	4	1	—	1
2 to 5 years, . . . . .	1	1	2	1	2	3	1	—	1
5 to 10 years, . . . . .	4	3	7	2	1	3	3	3	6
10 to 20 years, . . . . .	1	2	3	5	3	8	3	2	5
Over 20 years, . . . . .	1	—	1	2	3	5	4	4	8
Unknown, . . . . .	2	1	3	—	—	—	2	—	2
Totals, . . . . .	16	11	27	16	11	27	16	11	27
Average of known cases (in months), . . . . .	84 $\frac{1}{2}$	76	80 $\frac{1}{2}$	112 $\frac{4}{5}$	146 $\frac{5}{7}$	126 $\frac{1}{2}$	185 $\frac{8}{13}$	203 $\frac{1}{7}$	202 $\frac{8}{13}$

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Mania, . . . . .	14	9	23	9	5	14
epileptic, . . . . .	—	—	—	2	—	2
Melancholia, . . . . .	3	3	6	—	1	1
Dementia, . . . . .	—	—	—	5	5	10
Totals, . . . . .	17	12	29	16	11	27

## 18. Causes of Death.

CAUSES.	Males.	Females.	Totals.
Nervous system,—			
Apoplexy, . . . . .	2	—	2
Organic disease of the brain, . . . . .	2	2	4
Respiratory,—			
Phthisis, . . . . .	4	2	6
Pneumonia, . . . . .	5	1	6
Digestive,—			
Disease of the liver, . . . . .	—	1	1
Zymotic,—			
Typho-malarial fever, . . . . .	1	—	1
Erysipelas, . . . . .	—	1	1
Developmental,—			
Senile debility, . . . . .	—	2	2
Ascites from debility, . . . . .	—	1	1
Syphilis, . . . . .	1	—	1
Accidental,—			
Suicide, . . . . .	—	1	1
Railroad accident, . . . . .	1	—	1
Totals, . . . . .	16	11	27



119. *Deaths, Classified by Results of Previous Admissions.*

NUMBER OF THE ADMIS- SION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			Totals.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Second, . . . . .	—	1	1	—	—	—	—	—	—	1	—	1	1	1	2
Totals, . . . . .	—	1	1	—	—	—	—	—	—	1	—	1	1	1	2

## 20. Recoveries Classified by Results of Previous Admissions.\*

NUMBER OF THE ADMIS- SION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Second, . . .	1	1	2	1	-	1	-	-	-	-	1	-	2	1	3
Third, . . .	1	-	1	-	-	-	-	-	-	-	1	-	1	-	1
Totals, . . .	2	1	3	1	-	1	-	-	-	-	3	1	4	1	4

\* \* In all cases of more than one admission, the classification is based upon the result of the admission next preceding the last, in each case respectively.

21. *Deaths Classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY. ("FROM FIRST ATTACK.")			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital. . . . .	1	—	1	1	—	1
Under 1 month, . . . .	—	—	—	1	1	2
From 1 to 3 months, . . .	—	1	1	1	—	1
3 to 6 months, . . . .	1	—	1	—	—	—
6 to 12 months, . . . .	—	—	—	—	—	—
1 to 2 years, . . . . .	1	—	1	3	1	4
2 to 5 years, . . . . .	1	—	1	1	—	1
5 to 10 years, . . . . .	2	2	4	3	2	5
10 to 20 years, . . . . .	3	1	4	4	4	8
Over 20 years, . . . . .	4	5	9	2	3	5
Unknown, . . . . .	3	2	5	—	—	—
Totals, . . . . .	16	11	27	16	11	27
Average of known cases (in months), . . . . .	195 $\frac{1}{2}$	267 $\frac{1}{2}$	226 $\frac{1}{2}$	112 $\frac{1}{2}$	160 $\frac{1}{2}$	182 $\frac{1}{2}$

22. *Ages of those who Died.*

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteen years and less, . .	2	—	2	—	—	—
From 15 to 20 years, . . .	—	2	2	—	—	—
20 to 25 years, . . . . .	3	2	5	—	—	—
25 to 30 years, . . . . .	2	—	2	1	—	1
30 to 35 years, . . . . .	1	—	1	3	1	4
35 to 40 years, . . . . .	2	1	3	2	—	2
40 to 50 years, . . . . .	1	—	1	2	1	3
50 to 60 years, . . . . .	1	3	4	2	2	4
60 to 70 years, . . . . .	1	1	2	2	3	5
70 to 80 years, . . . . .	—	—	—	2	3	5
Over 80 years, . . . . .	—	—	—	—	1	1
Unknown, . . . . .	3	2	5	2	—	2
Totals, . . . . .	16	11	27	16	11	27

23. *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1885.*

YEARS.	NEW CASES (FIRST ADMISSION).																	
	ADMITTED.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, 2 months,	99	129	228															
1858-59, .	42	46	88															
1859-60, .	66	91	157															
1860-61, .	58	46	104															
1861-62, .	51	43	94															
1862-63, .	66	57	113															
1863-64, .	35	30	65															
1864-65, .	54	55	109															
1865-66, .	66	52	118															
1866-67, .	42	69	111															
1867-68, .	54	71	125															
1868-69, .	72	64	136															
1869-70, .	80	103	183															
1870-71, .	93	88	181															
1871-72, .	83	85	168															
1872-73, .	89	69	158															

1873-74,	86	69	155																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
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23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1886.

YEARS.	ADMITTED.			NEW CASES (FIRST ADMISSION).											
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, 2 months,	99	129	228												4
1858-59, .	42	46	88												1
1859-60, .	66	91	157												1
1860-61, .	58	46	104												
1861-62, .	51	43	94												
1862-63, .	56	57	113												
1863-64, .	35	30	65												
1864-65, .	54	55	109												1
1865-66, .	66	52	118												1
1866-67, .	42	69	111						1						
1867-68, .	54	71	125										1		
1868-69, .	72	64	136												
1869-70, .	80	103	183												1
1870-71, .	93	88	181												2
1871-72, .	83	85	168												1
1872-73, .	89	69	158										1		1

[illegible]

23. *Annual Admissions Since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1885. — Concluded.*

YEARS.	READMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS SEPT. 30, 1885.					
	DISCHARGED AND DIED IN 1884-85.																	
	ADMITTED.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, 2 months,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1858-59, .	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1859-60, .	7	3	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1860-61, .	13	7	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1861-62, .	13	5	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1862-63, .	14	11	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1863-64, .	12	15	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1864-65, .	16	9	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1865-66, .	9	9	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1866-67, .	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1867-68, .	14	13	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1868-69, .	12	21	33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1869-70, .	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1870-71, .	16	14	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1871-72, .	18	13	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
1872-73, .	13	10	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

[illegible]



## 24. Relapsed Cases Admitted in each Year, and Discharged in 1884-85.

YEARS.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.												REMAINING SEPT. 30, 1885.
	ADMITTED.				DISCHARGED AND DIED IN 1884-85.								
	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		DIED.				
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	
1858, 2 months.													
1858-59.	2	1	2										1
1859-60.	5	2	7										1
1860-61.	8	7	15										1
1861-62.	6	2	8										1
1862-63.	5	8	13										1
1863-64.	6	10	16										1
1864-65.	4	4	8										1
1865-66.	4	3	7										1
1866-67.	11	6	17										1
1867-68.	8	7	15										1
1868-69.	6	9	15										1
1869-70.	5	4	9										1
1870-71.	5	6	11										1
1871-72.	4	6	10										1
1872-73.	6	5	11										1
1873-74.	7	8	15										1
1874-75.	2	5	7										1

[illegible]

25. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	55.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84

26. *Monthly Consumption of Gas.*

MONTHS.	Cubic feet.	Daily Average.
<b>1884.</b>		
October, . . . . .	42,700	1,377.42
November, . . . . .	49,200	1,640.
December, . . . . .	49,650	1,601.61
<b>1885.</b>		
January, . . . . .	47,700	1,538.71
February, . . . . .	38,450	1,373.21
March, . . . . .	37,200	1,200.
April, . . . . .	26,800	893.33
May, . . . . .	17,950	579.03
June, . . . . .	13,950	465.
July, . . . . .	13,200	426.12
August, . . . . .	19,650	633.87
September, . . . . .	28,200	740.
Total, . . . . .	384,650	1,054.11*

\* Daily average for the year.

## 27. Supplies for the Several Departments for the Year 1884-85.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Rubber Sheets.	Bed-ticks.	Pillow-ticks.	Towels.	(Curtains.	Wash-bowls.	Bowls.	Chamber.	Mirrors.	Hair Brushes.	Combs.	(Carpet Strips.	Plates.	(Cups.	Saucers.	Tumbler.	Mugs.	Howls.	Pitchers.	Syrup Cups.	Knives.	Forks.	Lanterns.
<b>Men's Department.</b>																											
Upper 1st Hall,	36	24	4	3	2	3	6	12	2	1	1	1	1	1	1	1	1	24	24	24	24	1	3	1	3	1	1
2d Hall,	18	30	11	16	2	3	6	10	6	2	1	1	1	1	1	1	1	6	18	18	18	7	1	1	1	1	1
3d and 4th Halls,	36	30	11	16	2	3	6	10	6	2	1	1	1	1	1	1	1	6	18	18	18	7	1	1	1	1	1
Middle 1st Hall,	48	18	6	8	2	4	2	14	6	1	1	1	1	1	1	1	1	21	27	27	2	2	3	2	1	1	1
2d Hall,	42	42	6	14	2	4	2	16	4	1	1	1	1	1	1	1	1	18	15	15	2	3	4	2	1	1	1
3d and 4th Halls,	12	12	—	20	—	4	—	—	—	—	—	—	—	—	—	—	—	6	18	18	—	3	2	—	—	—	—
Lower 1st Hall,	38	14	2	—	6	6	2	—	2	—	—	—	—	—	—	—	—	12	6	6	—	3	2	—	—	—	—
2d Hall,	48	24	2	—	6	6	2	—	—	—	—	—	—	—	—	—	—	10	10	10	—	3	2	—	—	—	—
3d and 4th Halls,	28	24	2	16	1	2	1	30	—	1	1	1	1	1	1	1	1	3	—	—	—	1	1	—	—	—	—
<b>Women's Department.</b>																											
Upper 1st Hall,	12	36	6	—	2	3	6	12	—	1	2	1	1	1	1	1	6	—	6	12	6	—	1	1	—	—	—
2d Hall,	12	32	6	18	2	5	6	58	6	3	3	12	1	1	1	1	18	54	48	36	—	9	1	—	—	—	—
3d Hall,	36	12	6	6	2	3	6	22	3	1	1	12	—	—	—	—	18	18	30	12	—	2	—	—	—	—	—
4th Hall,	4	—	—	8	—	3	6	12	3	—	—	—	—	—	—	—	18	18	30	12	—	—	—	—	—	—	—
Middle 1st Hall,	12	26	10	7	3	6	18	18	7	1	2	18	—	—	—	—	18	18	18	12	—	—	2	—	—	—	—
2d Hall,	24	30	12	14	5	8	6	18	11	1	—	24	1	1	1	1	17	6	24	6	—	18	4	—	—	—	—
3d Hall,	12	—	12	12	5	2	4	4	4	—	—	12	—	—	—	—	12	—	12	—	—	—	—	—	—	—	—
4th Hall,	24	12	6	2	6	1	3	16	5	1	1	6	—	—	—	—	—	—	6	12	—	—	2	—	2	6	1
Lower 1st Hall,	—	—	—	—	6	1	6	28	6	1	—	12	—	—	—	—	—	—	—	—	—	6	—	—	1	—	—
2d Hall,	24	28	—	12	6	16	12	24	5	1	—	12	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—
3d Hall,	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—	6	—	—	—	—	6	—	—	—	—	—
4th Hall,	—	—	—	—	—	—	—	—	—	—	—	3	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—
Kitchen,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Rear,	11	6	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Centre,	4	16	2	—	—	—	—	19	1	—	2	—	—	—	—	—	225	42	30	60	—	24	4	—	22	—	—
Aggregate,	477	444	76	156	35	64	45	355	57	14	11	192	3	9	190	35	354	177	298	202	92	78	42	4	26	12	9

## 27. Supplies for the Several Departments for the Year 1884-85. — Concluded.

	Spoons.	Glass ('water).	Table-spreads.	Rapkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish-towels.	Rollers.	Wash-basins.	Soap, pounds.	Brooms.	Whisks.	Just-brushes.	Scrub-brushes.	Dust-pans.	Mops.	Falls.	Spittoons.	Blacking.	Shoe-brushes.	Spoils Thread.	Knives Needles.	Papers Pins.	Rubber (hammers)
<i>Men's Department.</i>																									
Upper 1st Hall,	6	—	—	12	—	—	6	6	—	—	42	11	5	2	3	—	1	—	—	1	9	1	4	—	1
2d Hall,	—	—	3	—	—	—	6	6	—	—	42	16	2	—	2	—	—	—	—	—	1	—	—	—	—
3d and 4th Halls,	—	—	—	—	—	—	6	24	6	—	68	15	2	1	1	—	2	3	3	6	1	—	—	—	—
Middle 1st Hall,	—	1	—	—	—	—	9	18	—	—	50	18	1	1	1	—	—	—	—	8	1	—	—	—	—
2d Hall,	—	2	—	—	—	3	6	6	12	—	58	32	1	2	2	—	6	5	2	18	1	—	—	—	—
3d and 4th Halls,	—	—	—	—	—	—	6	24	6	1	50	28	3	2	2	—	6	6	2	17	1	—	—	—	—
Lower 1st Hall,	—	—	—	—	—	—	—	—	—	—	14	13	2	1	2	—	—	—	—	1	6	2	—	—	—
2d Hall,	—	—	—	—	—	—	2	24	30	—	54	22	2	2	—	—	—	2	—	8	2	—	—	—	—
3d and 4th Halls,	—	—	—	—	—	—	6	18	6	1	88	25	3	1	1	—	1	3	—	17	2	4	—	—	—
<i>Women's Department.</i>																									
Upper 1st Hall,	—	—	2	12	—	—	—	—	—	—	34	7	—	—	1	—	2	3	—	—	—	—	—	—	2
2d Hall,	—	—	2	—	—	—	12	12	—	—	52	23	3	—	1	—	2	5	—	—	—	16	—	—	11
3d Hall,	—	—	—	—	—	6	12	6	6	—	46	14	1	—	—	—	2	4	—	—	—	16	—	—	8
4th Hall,	—	2	7	—	—	—	24	6	6	—	46	8	—	4	—	—	—	—	—	—	—	5	—	—	9
Middle 1st Hall,	—	—	—	—	—	—	—	6	—	—	38	9	—	1	—	—	1	1	—	—	—	10	—	—	4
2d Hall,	—	4	2	—	—	12	18	6	—	—	58	24	—	2	1	—	4	3	—	—	—	26	—	—	11
3d Hall,	—	—	—	—	6	24	24	—	—	—	54	15	—	2	1	—	3	1	—	—	—	20	—	—	4
4th Hall,	—	—	—	—	—	6	12	18	—	—	42	10	—	1	—	—	2	—	—	—	—	13	—	—	3
Lower 1st Hall,	—	—	—	—	—	3	12	—	—	1	64	20	—	1	—	—	1	—	—	—	—	13	—	—	5
2d Hall,	—	1	3	—	—	6	24	—	—	—	98	24	1	2	—	2	—	3	—	—	—	44	—	—	24
3d Hall,	—	—	—	—	—	—	12	—	—	—	50	9	—	—	—	—	—	—	—	—	—	4	—	—	8
4th Hall,	—	2	2	15	—	—	—	—	—	—	16	5	—	—	—	—	—	1	—	—	—	17	—	—	4
Kitchen,	12	—	—	—	—	—	—	18	24	—	37	56	8	3	2	—	2	3	—	—	—	—	—	—	8
Rear,	—	—	3	—	—	—	—	—	—	—	157	96	4	1	1	—	—	—	—	—	—	—	—	—	—
Centre,	—	—	—	—	—	1	—	24	3	—	45	6	4	1	1	—	—	—	—	2	—	—	—	—	—
Aggregate,	18	12	24	39	6	61	191	210	105	4	1,303	506	55	30	22	6	38	51	14	103	11	212	30	103	14

28. *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1884.</b>								
October, .	862	124	248	372	169	54	402	456
November, .	677	150	245	395	188	49	340	389
December, .	614	155	218	373	184	40	404	444
<b>1885.</b>								
January, .	510	155	230	385	176	30	388	418
February, .	506	140	203	343	174	24	349	373
March, .	525	155	211	366	193	25	365	390
April, .	593	150	221	371	149	41	359	400
May, .	710	155	244	399	163	52	322	374
June, .	872	150	237	387	153	52	360	412
July, .	868	155	244	399	262	54	394	448
August, .	754	155	243	398	283	52	332	384
September, .	858	150	221	371	236	52	352	404
Totals, .	8,349	1,794	2,765	4,559	2,280	525	4,367	4,892

The patients whose work is recorded in this table, were employed as many hours in the day as were the employees in each of the several departments, respectively. The total number of days' work is 20,080, to which may be added 775 days, by men, in the mattress room, making an aggregate of 20,855 days. The number is larger than in any former year, with two exceptions.

No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler room, and the carpenter's shop. A large amount of other work is done, both in the halls, and, at irregular times, out of them.

*29. List of Articles made in the Sewing-Room.*

Dresses, . . . . .	208	Mattress-ticks, . . . . .	43
Waists, . . . . .	18	Pillow-ticks, . . . . .	64
Chemises, . . . . .	257	Bed-spreads hemmed, . . . . .	75
Drawers, . . . . .	104	Curtains, . . . . .	69
Skirts, . . . . .	107	Handkerchiefs hemmed, . . . . .	65
Sacques, . . . . .	8	Napkins hemmed, . . . . .	50
Night-dresses, . . . . .	15	Table-cloths, . . . . .	22
Shirts, . . . . .	341	Dish-towels, . . . . .	343
Suspenders, pairs, . . . . .	164	Dish-towels hemmed, . . . . .	47
Collars, . . . . .	123	Roller-towels, . . . . .	157
Aprons, . . . . .	225	Carpets made, . . . . .	2
Camisoles, . . . . .	11	Carpet-strips hemmed, . . . . .	61
Sheets, . . . . .	419	Clothes bags, . . . . .	31
Pillow-cases, . . . . .	530	Pants, . . . . .	2
Bolster-cases, . . . . .	24	Articles repaired, . . . . .	24,235

*30. Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	23
Hair mattresses made, new ticks, . . . . .	35
Hair mattresses overhauled, hair repicked, . . . . .	116
New husk underbeds made, new materials, . . . . .	23
Old underbed ticks filled with new husks, . . . . .	127
Hair pillows made, new materials, . . . . .	15
Old pillow-ticks filled with new hair, . . . . .	20
Hair pillows overhauled, hair repicked, . . . . .	47

*31. Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	318.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	951 49	475.94	1 99

The hospital has always been supplied with gas by the Northampton Gas Light Company. Until April 1, 1879, the price was \$3.25 per thousand cubic feet, with an additional charge for meter-rent. From that date to July 1, 1884, it was \$3, including meter-rent, with a discount of five per cent. during the last four years of the period; and since the date last mentioned it has been \$2.50, without discount.



32. *Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,*	Northampton,	1856	1857	Term expired.
Lucien C. Boynton,	Uxbridge,	1856	1858	" "
Eliphalet Trask,	Springfield,	1856	1875	" "
John C. Russell,*	Great Barrington,	1856	1859	Resigned.
Horace Lyman,	Greenfield,	1856	1857	Removed.
Charles Smith,	Northampton,	1857	1860	Resigned.
Luther V. Bell,*	Somerville,	1857	1859	"
Zebina L. Raymond,*	Greenfield,	1858	1859	"
Franklin Ripley,*	Greenfield,	1859	1860	Died in office.
Edward Dickinson *	Amherst,	1859	1864	Resigned.
Walter Laffin,*	Pittsfield,	1859	1866	Term expired.
Silas M. Smith,	Northampton,	1860	1863	" "
Charles Allen,	Greenfield,	1860	1861	Resigned.
Alfred R. Field,*	Greenfield,	1861	1864	"
Edward Hitchcock,	Amherst,	1863	1879	"
Silas M. Smith,	Northampton,	1864	-	Still in office.
Edmund H. Sawyer,*	Easthampton,	1864	1879	Died in office.
Henry L. Sabin,*	Williamstown,	1866	1876	Term expired.
Adams C. Deane,	Greenfield,	1875	-	Still in office.
Henry W. Taft,	Pittsfield,	1876	-	" "
William M. Gaylord,	Northampton,	1879	1883	Term expired.
Lyman D. James,	Williamsburg,	1879	-	Still in office.
Christop'r C. Merritt,	Springfield,	1883	-	" "
Sarah A. Woodworth,	Chicopee,	1884	-	" "
Sarah M. Butler,	Northampton,	1884	-	" "

\* Deceased.

33. *Superintendents and Treasurers.*

## SUPERINTENDENTS.

William H. Prince, M. D., from Oct. 1, 1857, to April 1, 1864.

Pliny Earle, A. M., M. D., from July 2, 1864, to Oct. 1, 1885.

Edward B. Nims, M. D., from Oct. 1, 1885.

## TREASURERS.

Eliphalet Trask, from July 4, 1856, to Aug. 14, 1860.

William H. Prince, from Aug. 14, 1860, to Feb. 26, 1864.

Silas M. Smith, from March 8, 1864, to Oct. 2, 1868.

Pliny Earle, from Oct. 2, 1868, to Oct. 1, 1885.

Edward B. Nims, from Oct. 1, 1885.

34. *Officers and Employees.*

Time employed, March 1, 1885.

NAMES.	Years.	Months.	Days.
Pliny Earle, M. D., Superintendent,	20	7	26
Edward B. Nims, M. D., Assistant Superintendent,	16	2	14
Daniel Pickard, M. D., 1st Assistant Physician,	7	10	22
David G. Hall, M. D., 2d Assistant Physician,	2	8	13
Emily F. Wells, M. D., 3d Assistant Physician,	—	2	—
Walter B. Welton, Clerk,	19	—	14
John Mercier, Farmer,	17	8	—
Danford Morse, Engineer,	20	—	7
Robert H. Gallivan, Supervisor,	11	10	11
Lucy A. Gilbert, Supervisor,	18	—	18
F. Josephus Rice, Steward,	26	4	24
Mary Ward, Seamstress,	14	6	3
George B. Walker, Baker,	—	8	20
Frances C. Earle, Assistant Clerk,	12	11	6
Minnie J. Guilfoil, Assistant Supervisor,	6	5	24
Gertrude C. Arnold, Assistant Seamstress,	1	5	—
Ida D. Hyde, Laundress,	—	9	4
Julia A. Pratt, Assistant Laundress,	—	11	15
Henry W. Estey, Attendant,	2	11	5
William J. Douglass, Attendant,	2	11	3
John L. Howard, Attendant,	2	8	23
Walter W. Burnham, Attendant,	1	4	29
John S. Powers, Attendant,	—	11	—
Robert Carter, Attendant,	—	10	24
Joshua F. King, Attendant,	—	7	23
Thomas P. Clair, Attendant,	—	5	8
Arthur Day, Attendant,	—	4	17
Herbert E. Phinney, Attendant,	—	4	2
John Curtis, Attendant,	—	4	2
Michael J. Flynn, Attendant,	—	1	29
James M. Shipperly, Attendant,	—	1	3
Maria E. Graves, Attendant,	17	1	7
Jane McGuire, Attendant,	9	10	3
Cécile Riel, Attendant,	8	4	23
Frances F. Poor, Attendant,	6	4	13
Naomi A. Griffin, Attendant,	4	9	21
Barbara McDonald, Attendant,	3	7	9
Flora R. Brown, Attendant,	2	2	25
Mary Hall, Attendant,	1	9	10
Jeanette McLean, Attendant,	1	6	3
Minnie Laventure, Attendant,	1	3	9
Annie Preble, Attendant,	1	2	11
Nellie D. Parker, Attendant,	—	11	18
Nettie V. Dinsmore, Attendant,	—	9	11
Olive A. Webber, Attendant,	—	9	9
Lavinia Trenholm, Attendant,	—	1	20
Philomène Goyette, Attendant,	1	11	10
Jessie A. Rand, Night Watch,	3	8	11
Hattie Halladay, Farmers' Dining Room,	10	7	14
Hattie Gamwell, Centre,	1	—	24

# 108 NORTHAMPTON LUNATIC HOSPITAL. [Oct.'85.

## 33. Officers and Employees — Concluded.

NAMES.	Years.	Months.	Days.
Thomas C. Powers, Assistant Steward, . . . . .	10	11	11
Carrie J. Gamwell, Centre, . . . . .	—	10	17
Lillian M. Douglass, Cook, . . . . .	3	4	22
Nellie Clark, Assistant Cook, . . . . .	7	—	27
Mary Sweeney, Assistant Cook, . . . . .	—	6	1
Anna Works, Assistant Cook, . . . . .	—	2	15
Mary A. Carnes, Rear, . . . . .	1	8	—
William C. Hall, Assistant Engineer, . . . . .	19	5	17
Nicholas Riel, Night Engineer, . . . . .	9	2	25
Walter E. Pillinger, Watchman, . . . . .	10	9	29
Sifroi Belville, Carpenter, . . . . .	14	10	7
Walter Tower, Carpenter, . . . . .	8	3	—
Alfred Parenteau, Painter, . . . . .	19	6	18
David Mercier, Coachman, . . . . .	8	—	14
Benjamin Rockwell, Assistant Farmer, . . . . .	17	9	—
Julius Freeman, Assistant Farmer, . . . . .	7	7	24
Henry Wilson, Assistant Farmer, . . . . .	5	10	8
James Madden, Assistant Farmer, . . . . .	9	5	29
Eugene Sullivan, Assistant Farmer, . . . . .	9	10	—
William C. Albray, Assistant Farmer, . . . . .	—	10	27
James McClellan, Car Boy, . . . . .	1	11	30

THIRTY-FIRST ANNUAL REPORT

OF

THE TRUSTEES

OF THE

NORTHAMPTON LUNATIC HOSPITAL,

FOR THE

YEAR ENDING SEPTEMBER 30, 1886.

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BOSTON:  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,  
18 POST OFFICE SQUARE.  
1887.



## OFFICERS OF THE NORTHAMPTON LUNATIC HOSPITAL.

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### TRUSTEES.

LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG
HON. CHRISTOPHER C. MERRITT, . . . . .	SPRINGFIELD.
SILAS M. SMITH, Esq., . . . . .	NORTHAMPTON.
MRS. SARAH M. BUTLER, . . . . .	NORTHAMPTON.
MRS. SARAH A. WOODWORTH, . . . . .	CHICOPEE.
ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.
HENRY W. TAFT, Esq., . . . . .	PITTSFIELD.

### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D., . . . . .	SUPERINTENDENT.
DANIEL PICKARD, M.D., . . . . .	FIRST ASSISTANT PHYSICIAN.
DAVID G. HALL, M.D., . . . . .	SECOND ASSISTANT PHYSICIAN.
EMILY F. WELLS, M.D., . . . . .	THIRD ASSISTANT PHYSICIAN.
WALTER B. WELTON, . . . . .	CLERK.
JOHN MERCIER, . . . . .	FARMER.
DANFORD MORSE, . . . . .	ENGINEER.

### TREASURER.

EDWARD B. NIMS, . . . . .	NORTHAMPTON.
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Office at the Hospital.

### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	MALE SUPERVISOR.
LUCY A. GILBERT, . . . . .	FEMALE SUPERVISOR.
F. JOSEPHUS RICE, . . . . .	STEWARD.
GERTRUDE C. ARNOLD, . . . . .	SEAMSTRESS.
IDA D. HYDE, . . . . .	LAUNDRESS.
GEORGE B. WALKER, . . . . .	BAKER.



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# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The Trustees of the Northampton Lunatic Hospital have the honor to submit their report for the fiscal year 1885-86.

In reviewing the year which has past we cannot fail to observe the fact which has often been alluded to in the annual reports, that there is a regular and gradual increase in the number of yearly admissions. There is also an increase in the number of acute cases, corresponding more or less accurately with the increase of population in Western Massachusetts. There is a tendency among that large class of patients, who come and go as occasion requires, to fall into a chronic or incurable condition, which makes their residence in the hospital more permanent. The removal of 33 chronic cases to almshouses has afforded some relief to the crowded condition of the hospital. Twelve patients have also been removed by the Board of Lunacy and Charity and placed in families where they are cared for at the same compensation as in the hospitals. It is gratifying to notice that the experiment has been so far successful, though the number of cases suitable for such an arrangement appears to us to be small.

The overcrowded condition of the hospitals in the eastern part of the State made it necessary for the Board of Lunacy and Charity to transfer twenty-five patients from the Danvers Hospital to this, in the course of the year.

The number of patients at the beginning of the year was 476; of men, 235; of women, 241. The number admitted during the year, including those transferred, was 183; of men, 85; of women, 98. Of these, 59 were State patients, 97 town patients and 27 private patients.

The whole number under treatment during the year was 659; of men, 320; of women, 339. There were 168 patients discharged; of men, 76; of women, 92; 14 men and 12 women died. The number at the close of the year was 491; of men, 244; of women, 247. The average daily number of men, was 237.9; of women, 236.5; making a total of 474.4. Of the patients discharged 29 were reported as recovered, 10 much improved, 59 improved, 43 unimproved and 1 not insane.

The largest number on any one day in the year was 494. The smallest number on any one day was 451.

The number of patients who were discharged on probation, under the sixty days law, was 47. Of these 5 were returned before the expiration of the legal time. The remainder are included in the general number of discharges.

The number of deaths is small, being 26.

There is a small decrease from last year's number of recoveries. Some of those who were discharged as much improved and improved were able to go out into the world and resume their former life with success.

For the past fourteen years the hospital has been supplied with water from the city water works. For various reasons the amount of water required for daily use has gradually increased. The supply was brought through a four-inch pipe from the main. Several other parties drew water from the same pipe and although the supply had been hitherto adequate, yet, as a protection against fire, and in case of any sudden demand for water, it was judged best to make some changes. By arrangement with the water commissioners, a six-inch pipe was laid from the main, by way of Washington avenue, about 4,000 feet in length, at an expense of \$1,659.05, to the hospital. A four-inch branch of 400' feet was also laid to the farm buildings and two double hydrants attached. The whole number of hydrants now inside the building is 21. There are six double and four single out-

side. The large fire pump has a connection with 29 of these hydrants.

The farm is regularly increasing in productiveness under the present management. It affords occupation for patients, it gives a large supply of the best qualities of vegetables for the tables and is a source of income that is, to say the least, convenient. The necessity for larger farm buildings has been partially met in the construction of a large piggery, which consists of a main building, 190 feet long and 24 wide, and a cross wing at the south end, 80 feet in length and 20 feet wide. Midway on the front of the main building is a room for slaughtering, 20 feet square. The building is of brick with a slate roof and a concrete floor. On the site of the old piggery, a cattle shed has been erected, 128 feet long and 44 wide. It is built of wood, with a trussed roof; the upper portion is to be used as a hay loft. It has a capacity of about 100 tons. In the lower portion, a room 44 feet by 20 was made for storing farming tools. A silo has been built by taking a room, 24 feet by 20, in the poultry house and sheathing it with wood and paper, at a cost of about \$40; 75 tons of corn ensilage have been stored in it. In the basement of the rotunda of the centre building, a refrigerator, 14 feet by 12, has been put in and found exceedingly useful.

Two brick sewers, respectively 12 and 14 inches in diameter, 333 and 249 feet in length, were laid in the rear of the farm buildings.

The sanitary condition of the hospital has always been an object of special attention and we believe has been in most respects satisfactory. There has been of late years great improvement in sanitary appliances. Accordingly it was judged best to make some changes. Ten of the thirty-two water-closets in the building have been refurnished and supplied with either the McFarland automatic flushing tanks, or automatic siphon tanks; also with special ventilating pipes, extending from the vaults up into the large roof ventilators, thus ensuring an excellent draught.

Among the repairs inside of the buildings the most noticeable are the relaying of several hall floors with southern pine

and the renewal of a portion of the water pipes, which had become nearly useless after many years of service.

The improvements upon the farm have been continued. Several acres of land in the western portion have been underdrained and put in condition for tillage. A new road has been constructed in the grove north of the hospital, and one in the west grove. The latter gives a direct and level thoroughfare to the western portion of the farm. A waste tract of land, about four acres in extent, north of the hospital on Mill River, was enclosed by a fence and made into a convenient pasture for the swine. The western line fence of the Clarke orchard has been replaced by sixty rods of picket fence, after grading. The Day pasture has been cleared of several acres of brush and 200 rods of rail and stone fence constructed. Many other minor improvements have also been made.

The upper two stories of the store-house, which was erected in 1884, still remain unoccupied. In view of the crowded condition of the hospital, a plan is in contemplation of utilizing these rooms for the accommodation of patients. They are well adapted to that purpose. There are about 100,000 cubic feet of space in the two stories and with a moderate outlay they would comfortably accommodate fifty patients.

The earnings of the hospital for the year exceed those of the preceding year. The money received for the board of the different classes of patients is as follows :—

For State patients, . . . . .	\$23,717 58
town patients, . . . . .	45,995 65
private patients, . . . . .	17,330 51
Total, . . . . .	<u>\$87,043 74</u>

The financial statement for Sept. 30, 1886, is as follows :—

The reserve fund, . . . . .	\$10,000 00
And cash assets available for future use, . . . . .	26,610 24
Total, . . . . .	<u>\$36,610 24</u>
And liabilities (bills payable), . . . . .	7,903 09
Balance in favor of the hospital, . . . . .	<u>\$28,707 15</u>

Dr. Earle retired from the office of superintendent at the close of the last fiscal year, after a most successful administration of over twenty-one years. He has continued to reside in the hospital during the year.

Dr. Nims assumed the office of superintendent at the beginning of the year, and his administration of its responsible duties has been in all respects successful and satisfactory to the Trustees.

Dr. Hall, the second assistant physician, was granted a leave of absence for one year, from September 15, to pursue his studies in Europe. Dr. Charles G. Dewey has been appointed as substitute during his absence.

No other changes have occurred during the year in the staff of officers.

A more specific exhibit of the operations of the hospital in its various departments will be found in the reports of the Superintendent and Treasurer and the accompanying tables.

LYMAN D. JAMES,  
C. C. MERRITT,  
S. M. SMITH,  
SARAH M. BUTLER,  
SARAH A. WOODWORTH,  
A. C. DEANE,  
HENRY W. TAFT,

*Trustees.*

NORTHAMPTON, Oct. 7, 1886.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1886.

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Superintendent and physician, . . . . .	per year, \$2,500 00
First assistant physician, . . . . .	" 1,200 00
Second assistant physician, . . . . .	" 800 00
Third assistant physician, . . . . .	" 700 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk-hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 22 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 15 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 15 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 58 33
Assistant steward, . . . . .	" 35 00
Attendants (male) (8), . . . . .	" 30 00
Attendants (male) (3), . . . . .	" 23 00
Attendants (male) (2), . . . . .	" 21 00
Attendants (female) (1), . . . . .	" 20 00
Attendants (female) (12), . . . . .	" 18 00
Attendants (female) (1), . . . . .	" 16 00
Attendants (female) (3), . . . . .	" 14 00
Night-watch (female), . . . . .	" 18 00
Housework, centre (female), . . . . .	" 15 00
Housework, centre (female), . . . . .	" 14 00
Cook (female), . . . . .	" 18 00

Assistant cook (male)	per month,	\$15 00
Assistant cooks (female) (3),	"	15 00
Farmers' dining room (female),	"	15 00
Housework, rear building (female),	"	10 00
Watchman,	"	80 00
Carpenter,	per day,	2 25
Carpenters (2),	"	2 00
Painter,	per month,	50 00
Assistant engineer,	"	82 00
Night engineer, and gardener in summer,	"	90 00
Coachman,	"	28 00
Farm hands (6),	"	28 00
Farm hand (1),	"	25 00
Farm hand (1),	"	23 00

In the warm season we generally hire some farm hands by the day. This year we have four, at \$1.50 per day, without board. They work mostly on improvements of the farm.



## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1886.

---

Live stock on the farm, . . . . .	\$6,457 00
Produce of the farm on hand, . . . . .	10,379 10
Carriages and agricultural implements, . . . . .	3,304 00
Machinery and mechanical fixtures, . . . . .	8,155 00
Beds and bedding in inmates' department, . . . . .	12,650 00
Other furniture in inmates' department, . . . . .	4,450 00
Personal property of State in Superintendent's department,*	9,475 00
Ready-made clothing, . . . . .	2,485 04
Dry goods, . . . . .	3,956 57
Provisions and groceries, . . . . .	3,534 02
Drugs and medicines, . . . . .	800 00
Fuel, . . . . .	5,272 61
Library, . . . . .	1,000 00
Paints and oils, . . . . .	500 00
Total, . . . . .	<u>\$72,418 34</u>

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other apartments.

## TREASURER'S REPORT.

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*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as Treasurer of the Hospital, for the fiscal year ending with the 30th of September, 1886. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

### ASSETS.

Three hundred and sixty-four acres of land,	\$14,000 00
Hospital building, . . . . .	250,000 00
Farm house, \$2,000; brick house, \$2,000, . . . . .	4,000 00
Three dwellings (H. Day lot), . . . . .	1,000 00
Storehouse and shops, . . . . .	16,000 00
Two barns, . . . . .	5,500 00
Horse stable, . . . . .	2,000 00
Scullery and wood-house, . . . . .	700 00
Lumber-house. . . . .	1,200 00
Pump-house, . . . . .	1,000 00
Cart shed, . . . . .	500 00
Coal-house, . . . . .	300 00
Piggery, . . . . .	3,000 00
Cattle-shed, . . . . .	1,200 00
Fire-proof for oils and paints, . . . . .	500 00
Two ice-houses, . . . . .	600 00
	\$331,500 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' report, . . . . .	\$72,418 34
Reserve fund, . . . . .	10,000 00

# 16 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

## RECEIPTS.

Cash on hand Sept. 30, 1885, . . . . .	\$4,589 55
Received from the State treasurer, . . . . .	24,791 96
from towns, . . . . .	47,158 56
from individuals, . . . . .	18,478 15
from sales, . . . . .	2,151 39
from interest, . . . . .	676 51
	<hr/>
	\$97,846 12

## PAYMENTS.

1st. Salaries and labor, . . . . .	\$28,969 39
2d. Provisions and supplies, viz:—	
Meats of all kinds, . . . . .	\$6,565 75
Fish of all kinds, . . . . .	1,099 60
Fruit and vegetables, . . . . .	1,385 19
Flour, . . . . .	4,008 00
Grain and meal for table, . . . . .	755 92
Grain and meal for stock, . . . . .	2,134 37
Tea, coffee and chocolate, . . . . .	786 37
Sugar and molasses, . . . . .	1,972 43
Butter and cheese, . . . . .	4,020 48
Salt and other groceries, . . . . .	2,217 03
All other provisions, . . . . .	781 97
	<hr/>
	25,727 11
3d. Clothing, . . . . .	4,038 48
4th. Fuel and lights, . . . . .	6,560 63
5th. Medicines and medical supplies, . . . . .	1,691 18
6th. Furniture, beds and bedding, . . . . .	3,744 77
7th. Transportation and travelling expenses, . . . . .	372 34
8th. Ordinary construction and repairs, . . . . .	3,032 00
9th. Extraordinary construction and repairs, . . . . .	13,001 09
10th. Miscellaneous expenses, including—	
1. Farm stock, . . . . .	\$1,264 15
2. Farm supplies, . . . . .	3,294 82
3. Water, . . . . .	1,026 86
4. Minor expenses, . . . . .	1,021 75
5. Contingencies, . . . . .	1,107 34
	<hr/>
	7,714 92
	<hr/>
Total expenditures, . . . . .	\$94,851 91

## LIABILITIES.

Salaries and wages due Oct. 1, 1886, . . . . .	\$3,822 56
Miscellaneous bills due, . . . . .	4,080 53
	<hr/>
	\$7,903 09

Due the institution for board, Oct. 1, 1886,—

from State, . . . . .	\$6,158 58	
towns, . . . . .	13,607 18	
individuals, . . . . .	3,750 27	
interest, . . . . .	100 00	
treasurer, Sept. 30, 1886, . . .	2,994 21	
	<hr/>	\$26,610 24

#### SUMMARY.

Total receipts, . . . . .	\$97,846 12
Total payments, . . . . .	94,851 91
	<hr/>
Cash on hand Sept. 30, 1886, . . . . .	2,994 21
	<hr/>
Total liabilities, . . . . .	\$7,903 09
Total debts due the institution, . . . . .	26,610 24
Total expenditures, including new buildings, . . . . .	94,851 91

Dividing this sum by 474.4, the average number of patients,

we have the average expenditure per patient, . . . . . \$199.94

And the average weekly expenditure per patient, . . . . . 3.845

Deducting from the total expenditures, . . . . . \$94,851 91

The extraordinary expenses, . . . . . 13,001 09

We have the current expenses, . . . . . \$81,850 82

Dividing \$81,850.82 by 474.4, the average number of

patients, we have the average expenditure per patient, . . . \$172.535

Making the average weekly expenditure per patient, . . . . . 3.318

Deducting from the current cash expenditure, . . . . . \$81,850 82

The increase of personal assets, . . . . . 3,302 39

We have the *necessary* cost for the year, . . . . . \$78,548 43

Dividing \$78,548.43 by 474.4, the average number of pa-

tients, we have, as the annual cost of each patient, . . . \$165.57

Making the average weekly cost of each patient, . . . . . 3.184

EDWARD B. NIMS,

*Treasurer.*

NORTHAMPTON, Oct. 7, 1886.

We have examined, as auditors, the accounts of the Treasurer, and found a satisfactory voucher for every entry.

A. C. DEANE,  
L. D. JAMES.

NORTHAMPTON, Oct. 7, 1886.

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The Superintendent herewith presents the Thirty-first Annual Report of the Hospital and the Tables of Statistics, giving in detail the operations of the institution for the official year, 1885-86. The history of the year shows the usual round of events, a good degree of prosperity, and about the average record of results. The following table gives a summary of the numerical changes:—

## 1. General Statistics, 1885-86.

	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1885, . . . . .	235	241	476
Admitted from the general population, . . . . .	85	73	158
Transferred from the Danvers Hospital, . . . . .	—	25	25
Total of admissions within the year, . . . . .	85	98	183
Whole number of cases within the year, . . . . .	320	339	659
Discharged within the year, . . . . .	76	92	168
Viz.: as recovered, . . . . .	10	19	29
much improved, . . . . .	8	2	10
improved, . . . . .	23	36	59
unimproved, . . . . .	20	23	43
not insane, . . . . .	1	—	1
Deaths, . . . . .	14	12	26
Patients remaining Sept. 30, 1886, . . . . .	244	247	491
Viz.: supported as State patients, . . . . .	81	61	142*
town patients, . . . . .	130	152	282
private patients, . . . . .	33	34	67
Number of different persons within the year, . . . . .	313	334	647
Persons admitted, . . . . .	80	96	176
recovered, . . . . .	10	19	29
Daily average number of patients, . . . . .	237.9	236.5	474.4

\* On the 1st of October, 1886, one man was transferred from State to town charge. Hence the new year will begin with—

State patients, . . . . . 80 + 61 = 141  
Town patients, . . . . . 131 + 152 = 283

The number of cases under treatment during the year was 659, which is larger by 60 than in the preceding year, and larger by 30 than in any former year. The number of admissions was 183, including 25 patients transferred from the Danvers hospital. The number of patients admitted from the general population is 158, which is larger by 16 than in any preceding year. Among the causes which produced this increase, we may reasonably include the general increase of population in the western part of the state, and the tendency among a large class of recurrent cases to become chronic and incurable.

The average daily population of the hospital is a little less than in the last year. This was caused by the unusual number of removals to various almshouses in the early part of the year, and to the removal of patients by the Board of Lunacy and Charity, for the purpose of boarding out in families. The largest number of patients on any one day was 494; the smallest, 451. Two men and three women were committed twice, and one man three times. Hence the number of *persons* admitted was 176. Of the 183 admissions, 47 had been previously under treatment in the hospital, 28 of these were second admissions, 7 were third admissions, 3 were fourth admissions, 2 were fifth, 3 were sixth, one was the ninth, one the thirteenth, one the fourteenth and one the seventeenth.

Fifteen of those admitted were suffering from acute disease at the time of admission, 17 were suicidal, 8 were in a bruised or maimed condition, 12 were cases of epilepsy, 8 of paresis or general paralysis of the insane, 4 gave evidence of syphilitic diseases and 26 were homicidal.

Of those discharged not recovered, 33 were removed to almshouses, 16 were sent out to board in families, 41 were taken to their homes, 13 removed from the state, one eloped, and one was discharged as not insane.

#### STATUS OF PATIENTS.

Of the 183 patients admitted, 59 were supported by the State, 97 by cities and towns, and 27 by individuals.

Of the 168 patients who were discharged, including those

who died, 67 were supported by the State, 82 by cities and towns, 19 by individuals.

Of those remaining Sept. 30, 1886, 142 are charged to the State, 282 to cities and towns and 67 are supported by individuals.

Of the whole number of cases treated during the year, 213 were State patients, 359 were town patients and 87 were private patients.

The following table is inserted, showing the weekly average number in each class for two years past; also the relative change in status of the last year as compared with the year previous to the last.

	1884-85.			1885-86.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . .	82.29	72.15	154.44	80.56	59.67	140.23
Town patients, . .	118.48	143.10	261.58	124.73	145.79	270.52
Private patients, . .	32.62	27.20	59.82	32.44	31.17	63.61

#### RECOVERIES.

The primary object of the hospital is the cure of patients. When we look at the comparatively small number of those who are regarded as completely recovered, the result hardly appears to be a sufficient compensation for the great amount of labor and expense involved. We must take into account those patients in whom the improvement approaches nearly to recovery, also the larger number whose mental and physical condition is bettered by their residence in the hospital.

Of the 183 patients who were admitted during the year about one-fourth were regarded as curable. The number of recoveries reported for the year is 29. No one was discharged as recovered more than once.

Of the 135 patients who were admitted for the first time during the year, 12 were discharged as recovered. Of the second admissions, 3.

The ratio of recoveries to the number admitted was 15.8 per cent.

The ratio of recoveries to the number of discharges was 17.2 per cent.

The ratio of recoveries to the average daily population was 6 per cent.

The ratio of recoveries to the number discharged, exclusive of deaths, was 20 per cent.

#### DISCHARGE ON PROBATION.

Forty-one patients have been discharged on trial for sixty days or less. Of these 36 were fully discharged at the end of the sixty days, and 5 were returned before the expiration of the time. One has been recommitted since her discharge.

Of the 41 thus discharged, 2 were removed to almshouses, 12 were boarded out in families, and 27 went to their homes. Of the latter number 23 have remained at home until the present time.

This plan of discharge relieves the Superintendent of difficulties which have stood in the way of the removal of doubtful cases. It also facilitates the removal of cases which would otherwise remain in the hospital, particularly among those patients who have friends who are able and disposed to care for them. The change in associations and surroundings is undoubtedly sometimes beneficial, and the desire to return home becomes an incentive to self-control. Hence such a discharge often becomes a part of the treatment.

#### DEATHS.

The rate of mortality for the year past has been below the average. The total number of deaths was 26. The larger number, 16, died from the effects of chronic diseases. Of these 7 died of consumption, 3 of general paralysis of the insane, and 2 of paralysis, one of chronic brain disease, one of protracted heart disease, and 2 of epilepsy.

Eight persons died of diseases which were wholly or partly acute in character. One death occurred as a result of erysipelas, one of pneumonia, and one from exhaustion of acute mania, in persons who were much enfeebled by long con-



tinued ill health. One death resulted from pneumonia which was contracted before admission to the hospital, from exposure while in a debauch. The second death from exhaustion of acute mania occurred in a patient who was much debilitated by the excessive use of morphine.

One death followed the operation of litholapaxy. A phosphatic calculus weighing 1,948.54 grains was removed from the bladder. The post mortem examination revealed serious chronic disease which, without doubt, contributed largely to his death.

One woman, who had been for years an invalid, died of malarial fever. Typhomania following puerperal fever was the cause of one death. Two patients, who were respectively 80 and 83 years of age, were reported as dying of old age, there being no other apparent cause.

No suicide occurred during the year; neither was there any epidemic, if we except a few cases of mild malarial attacks.

The rate per cent. of deaths, reckoned on the daily average of population, was 5.48. On the whole number of cases, 3.94 per cent. This is the smallest ratio except one in the history of the hospital. The average per cent. on the daily population for the past ten years is 6.26.

Of the 26 persons who died, 6 were supported by the State, 17 by towns and cities and 3 by individuals. The following table gives a concise statement of the ratios of mortality from the opening of the hospital:—

*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1886.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Total.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	18	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.4	14	12	26	3.94	5.48

## WORSHIP AND ENTERTAINMENT.

The following table exhibits the character of the exercises at the assemblies of patients during the year : —

*Exercises in Chapel.*

## 1. ON THE SABBATH, —

Divine worship, . . . . . 52 days.

## 2. ON SECULAR EVENINGS, —

(a) *Readings and Recitations, opened and closed with music.*

The Bible, . . . . . 5 days.

The Bible and selections of poetry, . . . . . 43 "

The Bible and selections of poetry and prose, . . . . . 2 "

The Bible and recitations, . . . . . 2 "

Miscellaneous selections of prose, . . . . . 77 "

Miscellaneous selections of poetry, . . . . . 27 "

Miscellaneous selections of prose and poetry, . . . . . 61 "

Recitations of poetry, . . . . . 1 "

(b) *Lectures* :—

Missionary work in India,	. . . . .	1 day.
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(c) *Other Entertainments* :—

Peak Sisters,	. . . . .	1 "
District school,	. . . . .	1 "
Pictures shown with the stereopticon,	. . . . .	7 "
Concerts,	. . . . .	2 "
Ventriloquism,	. . . . .	1 "

(d) *Social Assemblies* :—

Quadrille parties,	. . . . .	20 "
No assembly,	. . . . .	62 "

Total,	. . . . .	365 days.
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The exercises were omitted two evenings in a week during the three summer months, on the evenings of days in which official visits were made to the hospital, also seven evenings because the chapel was occupied by the painters.

Religious service has been held regularly on Sabbath afternoons. The average attendance at these services was 279, the smallest 261 and the largest 299. The value of these daily assemblies, when properly conducted, cannot be disputed. They relieve the monotony of hospital life. They are a valuable means of discipline, where a moderate incentive turns the scale in favor of good order and self-respect. They afford mental stimulus to those who are benumbed and inactive. They are, in fact, a valuable means of education to the insane.

## FARM.

The season has been generally favorable for the farm. A short drouth in the early summer delayed the growth of some of the crops. The results are, however, good. The amount of the products <sup>are</sup> ~~are~~ larger than ever before.

The farm contains about 364 acres. There are nearly 100 acres that have not been tilled, which can be reclaimed. The increase in the products is partly owing to the improvement of this land and to a higher cultivation of other parts of the farm.

The farm yearly proves itself to be a valuable adjunct to the hospital by affording healthful labor to many able-bodied patients, by furnishing a large amount of fruit and vegetables

of the best quality, and lastly because it is a source of considerable profit. The increase in the hay crop over last year was eighteen tons. The following table gives the yearly amount :—

1864, estimated, . . . 40 tons.	1876, weighed, . . . 111 tons.
1865, " . . . 62 "	1877, " . . . 154 "
1866, " . . . 42 "	1878, " . . . 179 "
1867, weighed, . . . 82 "	1879, " . . . 144 "
1868, " . . . 86 "	1880, " . . . 154 "
1869, " . . . 91 "	1881, " . . . 213 "
1870, " . . . 74 "	1882, " . . . 170 "
1871, " . . . 75 "	1883, " . . . 197 "
1872, " . . . 91 "	1884, " . . . 174 "
1873, " . . . 84 "	1885, " . . . 251 "
1874, " . . . 120 "	1886, " . . . 269 "
1875, " . . . 100 "	

There is also an increase in the product of pork. Fifty-eight hogs were slaughtered, the total weight of which was 21,503 pounds. The heaviest weighed 800 pounds. The average weight was 370 pounds.

It is expected that the new and large piggery which has been constructed in the past year will increase this product still further, and enable us to utilize the waste food of the hospital more completely. The following table gives the amount of the yearly product of pork :—

*Pork Raised upon the Farm.*

1865, . . . 6,265 pounds.	1876, . . . 12,467 pounds.
1866, . . . 5,443 "	1877, . . . 13,605 "
1867, . . . 7,416 "	1878, . . . 14,451 "
1868, . . . 7,791 "	1879, . . . 13,569 "
1869, . . . 8,469 "	1880, . . . 14,729 "
1870, . . . 7,447 "	1881, . . . 15,610 "
1871, . . . 7,863 "	1882, . . . 14,414 "
1872, . . . 11,366 "	1883, . . . 15,612 "
1873, . . . 10,511 "	1884, . . . 10,192* "
1874, . . . 12,024 "	1885, . . . 17,544 "
1875, . . . 12,693 "	1886, . . . 21,503 "

\* Quantity diminished by disease.

The quantity of milk produced during the year is 26,882 gallons. One-third of this amount is entered in the list of products, as it is judged that the other two-thirds have been charged to the farm in other ways.

About five acres of fodder-corn were planted and have been harvested and put in a silo for use. The ensilage is estimated at seventy-five tons. The ease with which this is produced was the main inducement which led to the experiment.

The amounts of some vegetables given are according to the present estimate, as they are not yet harvested.

The usual purchases of cattle and sheep for slaughtering were made. In this way we can supply the hospital with beef and mutton of good quality at low rates.

*List of Products in 1886.*

Hay (first growth of home farm), 164½ tons, at \$16,	\$2,638 00
Hay (south lot), 31½ tons, at \$16,	506 00
Hay (Clarke orchard), 18½ tons, at \$16,	300 00
Hay (after-growth of whole farm), 53½ tons, at \$16,	862 00
Corn fodder, dry, 27 tons,	162 00
Corn, 540 bushels	243 00
Potatoes, 2,776 bushels,	1,665 60
Broom-seed, 25 bushels,	10 00
Broom-brush, 600 pounds,	60 00
Carrots, 300 bushels,	120 00
Sugar beets, 1,566 bushels,	469 80
Beets, 50 bushels,	25 00
Onions, 250 bushels,	129 60
Turnips, 500 bushels,	200 00
Parsnips, 70 bushels,	42 00
Beans (Lima), in shell, 139 bushels,	208 50
Beans (common), in shell, 38 bushels,	38 00
Beans (string), 22 bushels,	44 00
Beans (Lima), dry, 8 bushels,	24 00
Beans (common), dry, 2 bushels,	3 00
Pease (green), in pod, 95½ bushels,	191 00
Sweet corn (green), in ear, 272 bushels,	272 00
Tomatoes, 207½ bushels,	207 50
Lettuce, 102½ bushels,	102 50
Cucumbers, 110½ bushels,	110 50
Squashes (summer), 73 bushels,	73 00
Squashes (winter), 5½ tons,	154 50
Melons, 8,713 pounds,	87 13
Asparagus, 22½ bushels,	67 50

Pie-plant, 45½ bushels, . . . . .	\$45 50
Beet greens, 9½ bushels, . . . . .	9 50
Spinach, 24 bushels, . . . . .	24 00
Cabbages, 3,100 heads, . . . . .	155 00
Currants, 23 bushels, . . . . .	46 00
Apples, 1,442 barrels, . . . . .	1,658 30
Pears, 43½ bushels, . . . . .	43 50
Quinces, 8 bushels, . . . . .	20 00
Grapes, 250 pounds, . . . . .	10 00
Veal (raised here), 227 pounds, . . . . .	26 54
Pork, 21,503 pounds, . . . . .	1,162 15
Pigs, sold, 238, . . . . .	570 25
Pigs (roasting), 6, . . . . .	15 00
Turkeys, 75½ pounds, . . . . .	16 96
Chickens, 1,068½ pounds, . . . . .	215 29
Heads and plucks, 12, . . . . .	9 80
Eggs, 536½ dozen, . . . . .	93 90
Milk (grass-fed), 8,960½ gallons, . . . . .	2,118 09
Cider, 150 barrels, . . . . .	225 00
Calfskins, 2, . . . . .	2 50
Young calves, sold, 17, . . . . .	48 00
Wood, 68 cords, . . . . .	170 00
Lumber, 15,000 feet, . . . . .	180 00
Fence posts, 260, . . . . .	52 00
Corn husks, 1½ tons, . . . . .	45 00
Citron, 500 pounds, . . . . .	5 00
Ensilage, 75 tons, . . . . .	262 50
	<hr/>
	\$16,245 91

#### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1884-85, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board bills of its patients, and the small sum of \$10 each for the funeral expenses of State patients who die in the hospital and whose remains are not removed for burial. The receipts from the last mentioned source during the past year were only \$45.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week from the

treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is a compensation fixed by statute law. One hundred and forty-two, or more than one-third of the inmates, now belong to this class. During the past year the weekly average of them was 29.56 per cent. of the whole.

For town patients it has received, and now receives, from the treasuries of the towns, respectively, in which these patients have legal settlements, the same sum per week (\$3.25 each) as from the State treasury for State patients; but the towns clothe their patients and remunerate the hospital for damages done by them. Two hundred and eighty-two of the inmates are now in this class. The weekly average of them for the year was 57.02 per cent. of the whole.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1886, was \$5.175 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 13 per cent. of the whole.

The average weekly pay per capita charged by the hospital for all its patients, — State, town and private, — in the course of the year, is \$3.528. Such are the pecuniary resources of the institution. We turn to the results of

#### THE FINANCE OF THE LAST TWENTY-ONE YEARS.

In April, 1865, the hospital was freed from debt, and the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the first of June, 1867, it received a direct bonus from the State of \$5,000, in two appropriations, for specific purposes, — one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to nearly one hundred and seventy-five acres, together with four dwelling-houses. The total cost of this real estate was \$30,883.92. The State then has, in this way alone, been overpaid for its bonus in the sum of \$25,883.92.

The amount paid by the hospital for repairs and improvements in the course of the last year is \$16,033.09; in the course of the twenty-one years, from Sept. 30, 1865, to Sept. 30, 1886, is \$249,735.53.

The surplus of cash assets now on hand, including the reserve fund, is \$28,707.75, or \$28,405.71 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$15,248.24. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$12,748.24.

The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums, the account of debit of the Commonwealth to the hospital appears to be as follows:—

Excess of cost of land over direct bonus,	\$25,883 92
Repairs and improvements,	249,735 53
Excess of present cash assets,	28,405 71
Increase of provisions and supplies,	12,748 24
Increase of furniture,	8,000 00
Total,	<u>\$324,773 40</u>

The necessary current repairs of the building may be estimated at \$3,000 annually. Deducting this sum for each of the twenty-one years since Sept. 30, 1865, a total of \$63,000, there is a remainder of \$261,773.40. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely upon direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary we have taken into account only the actual disbursements of money by the hospital in contributing to its own improvements. But aside from this a large amount of work in effecting those improvements was performed by the teams of horses and cattle belonging to the institution and by the regular corps of its



employees. Agreeably to all correct business principles, as well as to the custom at some similar institutions, the hospital should be credited with the amount of the value of this labor. But no credit has ever been given for it. Many thousands of dollars might, in this direction, be justly added to the sum above mentioned, as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition, it may be interesting to know to what extent the tax-payers of the State have contributed to the institution. From a list, furnished by the State treasurer, of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection down to the present day, it has cost the people of the Commonwealth only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).

### CHRONOLOGY OF THE HOSPITAL.

[N. B. The years are the calendar years, and not the official years of the hospital.]

**1885**—*Continued.* A large stone under-drain was laid in the ravine south of the ice-pond, and the ravine filled by grading.

**1886.** Ten water-closets in the north wing and centre building were remodelled and furnished with new and improved apparatus.

Seven hall floors of the north wing were relaid.

A large refrigerator was constructed in the basement of the rotunda.

Four hundred and fifty feet of four-inch water pipe was laid to supply the farm buildings and hydrants.

A new brick piggery, two hundred and seventy feet in length, with slaughter-house, was erected.

The old piggery was removed, and a cow-shed, with a hay-loft over it, 128 feet by 44, was built on the same site.

Two brick sewers, extending down the bank in the rear of the barns, respectively 333 and 294 feet in length, were built.

A new road was made through the grove in the Fowle lot, opening a direct route to the western part of the farm.

One-half of the poultry-house was made into a silo and filled.

A new poultry-house was made from the shed which stood adjacent to the large barn.

### ACKNOWLEDGMENTS.

The hospital is under obligations, to ladies and gentlemen from Northampton, for the play of the "Peak Sisters," and for a representation of the "District School," also to the Banjo Club of Smith College for a concert; to Mr and Miss

Brown for a concert; to Mr. G. W. Leitch for a lecture on missionary work in India, illustrated by the stereopticon; and to Dr. T. W. Meekins for exhibitions of stereoscopic views.

A generous Christmas box was received from Miss Florence Austin, also a quantity of illustrated papers. A supply of magazines from Mrs. S. M. Butler. Many patients received presents from Mrs. Butler and Mrs. Woodworth. A supply of newspapers from S. E. Bridgman, Esq., and from the publishers of the "Christian Register" and the "Staaten Zeitung," for one copy of those papers throughout the year.

#### CONCLUSION.

At the close of the year we look back to observe what changes have occurred. The most noticeable was the retirement of Dr. Earle from the office of Superintendent at the beginning of the year. He was elected to the position July 2, 1864, and was therefore at the head of the institution for twenty-one years and three months. Only those who were associated with him can have an adequate idea of the vast amount of labor which was required to bring the institution up to its present standard. By strict economy and careful management he placed and kept the hospital upon a sound financial basis. He instituted and maintained order and thorough discipline in all departments. His methods and example furnish a valuable precedent for all who may follow him.

Several changes have occurred among those employed in the hospital. Three men and three women have left the service who were attendants. No attendant has been discharged for cause.

The labors and responsibilities of the year have been lessened by the generous support of the Board of Trustees, and by the assistance of those with whom I am associated.

In the midst of all our duties and cares, it is well to remember that "Sincere work well done is the beauty and fullness of life."

EDWARD B. NIMS.

October 7, 1886.



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## APPENDIX.

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## 2.\* Monthly Admissions, Discharges and Averages.

MONTHS.	ADMISSIONS.			DISCHARGES (Including Deaths.)			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1885.</b>									
October, . . . . .	5	10	15	7	5	12	235.74	244.94	480.68
November, . . . . .	5	5	10	4	20	24	231.36	236.07	467.43
December, . . . . .	7	6	13	7	8	15	234.52	233.22	467.74
<b>1886.</b>									
January, . . . . .	4	6	10	4	8	12	234.1	228.35	462.45
February, . . . . .	4	2	6	2	10	12	234.71	218.89	453.6
March, . . . . .	7	24	31	3	5	8	237.26	228.09	465.35
April, . . . . .	11	5	16	11	10	21	238.07	238.23	476.3
May, . . . . .	12	5	17	6	5	11	241.55	234.	475.55
June, . . . . .	8	14	22	13	4	17	241.53	235.7	477.23
July, . . . . .	9	6	15	7	3	10	241.22	244.42	485.64
August, . . . . .	5	9	14	6	8	14	241.64	247.23	488.87
September, . . . . .	8	6	14	6	6	12	242.9	247.56	490.46
Total of cases, . . . . .	85	98	183	76	92	168	-	-	-
Total of persons, . . . . .	80	96	176	73	92	165	-	-	-
Daily average for the year, . . . . .	-	-	-	-	-	-	237.9	236.5	†† 474.4

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals were obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

†† One man admitted, and one man discharged, as *not insane*, are not included in the following tables.

## 3. Received on First and Subsequent Admissions.

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	62	73	135	-	-	-
Second, . . . . .	13	15	28	3	8	11
Third, . . . . .	2	5	7	1	1	2
Fourth, . . . . .	2	1	3	3	-	3
Fifth, . . . . .	1	1	2	-	4	4
Sixth, . . . . .	2	1	3	6	-	6
Ninth, . . . . .	-	1	1	-	7	7
Thirteenth,* . . . . .	1	-	1	-	-	-
Fourteenth,* . . . . .	1	-	1	4	-	4
Seventeenth, . . . . .	-	1	1	-	11	11
Total of cases, . . . . .	84	98	182	17	31	48
Total of persons, . . . . .	79	96	175	7	13	20

\* The thirteenth and fourteenth admissions were of the same *person*. Hence his previous recoveries are inserted only after the last admission.

4. *Ages of Persons Admitted for the First Time.*

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED		
	Males.	Females.	Total.	Males.	Females.	Total.
Congenital, . . . . .	—	2	2	—	—	—
Fifteen years and less, . . . . .	2	2	4	—	—	—
From 15 to 20 years, . . . . .	3	4	7	3	5	8
20 to 25 years, . . . . .	12	8	20	12	3	15
25 to 30 years, . . . . .	8	9	17	8	8	16
30 to 35 years, . . . . .	6	6	12	9	11	20
35 to 40 years, . . . . .	8	4	12	9	6	15
40 to 50 years, . . . . .	8	11	19	11	17	28
50 to 60 years, . . . . .	4	9	13	6	13	19
60 to 70 years, . . . . .	2	5	7	2	4	6
70 to 80 years, . . . . .	1	2	3	2	5	7
Over 80 years, . . . . .	—	—	—	—	1	1
Unknown, . . . . .	8	11	19	—	—	—
Total of <i>persons</i> , . . . . .	62	73	135	62	73	135

5. *Parentage of Persons Admitted.*

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	1	1	—	1	1	2
New Hampshire, . . . . .	—	—	2	2	2	2
Vermont, . . . . .	4	2	1	4	5	6
Massachusetts, . . . . .	20	23	20	18	40	41
Rhode Island, . . . . .	—	—	—	1	—	1
Connecticut, . . . . .	5	4	7	4	12	8
New York, . . . . .	5	6	3	3	8	9
Pennsylvania, . . . . .	—	—	—	1	—	1
Virginia, . . . . .	—	1	—	—	—	1
South Carolina, . . . . .	—	1	—	—	—	1
Canada, . . . . .	4	4	1	1	5	5
Cape Breton Island, . . . . .	1	1	—	—	1	1
England, . . . . .	—	—	8	3	3	3
Scotland, . . . . .	2	2	2	2	4	4
Ireland, . . . . .	28	26	38	37	66	63
Wales, . . . . .	1	—	—	—	1	—
France, . . . . .	1	1	—	—	1	1
Germany, . . . . .	4	4	4	4	8	8
Italy, . . . . .	1	1	—	—	1	1
Sweden, . . . . .	—	—	8	3	3	3
Unknown, . . . . .	2	2	12	12	14	14
Total of <i>persons</i> , . . . . .	79	79	96	96	175	175

6. *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire Connty, . . . . .	15	13	28
Hampden County, . . . . .	35	35	70
Berkshire County, . . . . .	17	10	27
Franklin County, . . . . .	10	11	21
Worcester County, . . . . .	1	1	2
Suffolk County, . . . . .	1	11	12
Norfolk County, . . . . .	—	1	1
Middlesex County, . . . . .	—	9	9
Essex County, . . . . .	—	5	5
Total of <i>persons</i> , . . . . .	79	96	175
Cities or large towns,* . . . . .	43	58	101
Country districts, . . . . .	36	38	74
Total of <i>persons</i> , . . . . .	79	96	175

\* Containing not less than 10,000 inhabitants.

7. *Civil Condition of Persons Admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . .	40	28	68	19	29	48	3	15	18	—	1	1
Second, . . .	9	8	17	1	5	6	1	1	2	—	—	—
Third, . . .	—	2	2	1	2	3	—	—	—	—	—	—
Fourth, . . .	—	—	—	1	—	1	1	1	2	—	—	—
Fifth, . . .	—	1	1	—	—	—	—	—	—	—	—	—
Sixth, . . .	—	—	—	2	1	3	—	—	—	—	—	—
Ninth, . . .	—	—	—	—	—	—	—	1	1	—	—	—
Fourteenth, . . .	1	—	1	—	—	—	—	—	—	—	—	—
Seventeenth, . . .	—	1	1	—	—	—	—	—	—	—	—	—
Total of <i>per- sons</i> , . . .	50	40	90	24	37	61	5	18	23	—	1	1



8. *Occupation of Persons Admitted.*

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
Armorer, . . . . .	1	Box maker, . . . . .	1
Baker, . . . . .	2	Carpenter's daughter, . . . . .	1
Brass moulder, . . . . .	1	Domestic, . . . . .	12
Box maker, . . . . .	1	Farmer's wife, . . . . .	2
Carpenter, . . . . .	2	Hotel clerk's wife, . . . . .	1
Coffin maker, . . . . .	1	Housekeeper, . . . . .	19
Cigar maker, . . . . .	1	Insurance agent's wife, . . . . .	1
Farmer, . . . . .	13	Laborer's wife, . . . . .	8
Insurance clerk, . . . . .	1	Laundress, . . . . .	1
Iron moulder, . . . . .	1	Lace worker, . . . . .	1
Laborer, . . . . .	24	Mechanic's wife, . . . . .	1
Manufacturer, . . . . .	1	Mill operative's wife, . . . . .	2
Mechanic, . . . . .	3	Mill operative, . . . . .	10
Machinist, . . . . .	2	Nurse, . . . . .	1
Marketman, . . . . .	1	No occupation, . . . . .	16
Musician, . . . . .	1	Paper maker's wife, . . . . .	1
Mill operative, . . . . .	2	Railroad conductor's wife, . . . . .	1
No occupation, . . . . .	5	Seamstress, . . . . .	4
Paper maker, . . . . .	3	Shoe stretcher, . . . . .	1
Polisher, . . . . .	1	Shoemaker's wife, . . . . .	1
Peddler, . . . . .	1	Slater's wife, . . . . .	1
Student, . . . . .	2	Tailloress, . . . . .	1
Shoemaker, . . . . .	1	Unknown, . . . . .	5
Stonecutter, . . . . .	2	Worsted worker, . . . . .	1
Spinner, . . . . .	1	Weaver, . . . . .	2
Tinsmith, . . . . .	1		
Wire maker, . . . . .	1		
Weaver, . . . . .	3		
Total of persons, . . . . .	79	Total of persons, . . . . .	96

9. *Reported Duration of Insanity before Last Admitted.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER ADMISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	2	2	—	—	—	—	2	2
Under 1 month, . . . . .	17	3	20	—	—	—	17	3	20
From 1 to 3 months, . . . . .	9	7	16	—	—	—	9	7	16
3 to 6 months, . . . . .	2	5	7	—	—	—	2	5	7
6 to 12 months, . . . . .	6	2	8	1	1	2	7	3	10
1 to 2 years, . . . . .	7	9	16	3	—	3	10	9	19
2 to 5 years, . . . . .	5	18	23	2	9	11	7	27	34
5 to 10 years, . . . . .	5	10	15	3	4	7	8	14	22
10 to 20 years, . . . . .	2	5	7	5	5	10	7	10	17
Over 20 years, . . . . .	2	1	3	2	5	7	4	6	10
Unknown, . . . . .	7	11	18	6	1	7	13	12	25
Total of cases, . . . . .	62	73	135	22	25	47	84	98	182
of persons, . . . . .	62	73	135	17	23	40	79	96	175
Average of known cases, . . . . .	Year 2½	Year 3½	Year 3½	Year 9½	Year 10½	Year 10½	Year 4½	Year 5½	Year 4½

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated. Two patients have been admitted for the first and second time within the year, and hence are reckoned in each division. Three other patients were admitted twice, and each admission is reckoned in the second division. The congenitals are not included.

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Totals.
Epilepsy acquired, . . . . .	7	4	11
General paralysis of the insane, . . . . .	4	—	4
Mania, acute, . . . . .	36	17	53
chronic, . . . . .	14	27	41
recurrent, . . . . .	4	6	10
a potu, . . . . .	6	1	7
puerperal, . . . . .	—	5	5
senile, . . . . .	1	—	1
Melancholia, acute, . . . . .	5	11	16
chronic, . . . . .	—	4	4
recurrent, . . . . .	1	—	1
puerperal, . . . . .	—	1	1
Dementia, primary, . . . . .	5	12	17
secondary, . . . . .	1	5	6
senile, . . . . .	—	4	4
Inebriate, . . . . .	—	1	1
Total of cases, . . . . .	84	98	182
of persons, . . . . .	79	96	175

11. *Probable Causes of Insanity in Persons Admitted.*

CAUSES.	Males.	Females.	Totals.
<i>Physical.</i>			
Ill-health, . . . . .	3	16	19
Epilepsy, . . . . .	7	5	12
Intemperance, . . . . .	20	2	22
Overwork, . . . . .	8	6	14
Overwork and ill-health, . . . . .	—	1	1
Change of life, . . . . .	—	2	2
Change of life and ill-health, . . . . .	—	2	2
Old age, . . . . .	—	2	2
Old age and sunstroke, . . . . .	—	1	1
Heredity, . . . . .	2	1	3
Masturbation, . . . . .	6	1	7
Injury, . . . . .	3	1	4
Morphine, . . . . .	1	1	2
Puerperal, . . . . .	—	6	6
Syphilis, . . . . .	1	—	1
Hysteria, . . . . .	—	1	1
Paresis, . . . . .	5	—	5
Paralysis, . . . . .	—	2	2
Congenital, . . . . .	1	3	4
Total of physical, . . . . .	57	53	110
<i>Mental.</i>			
Trouble, . . . . .	2	2	4
Business trouble, . . . . .	2	2	4
Domestic trouble, . . . . .	2	1	3
Loss of friends, . . . . .	—	2	2
Mental shock, . . . . .	—	1	1
Religious excitement, . . . . .	1	1	2
Total of mental, . . . . .	7	9	16
Total of physical, . . . . .	57	53	110
Unknown, . . . . .	15	34	49
Total of persons, . . . . .	79	96	175

12. *Relation to Hospitals of Persons Admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Totals.
Never before in any hospital, . . . . .	59	40	99
Former inmates of this hospital, . . . . .	18	22	40
Former inmates of other hospitals in this State, . . . . .	-	26	26
Former inmates of hospitals in other States, . . . . .	1	4	5
Former inmates of this hospital and of hospitals in other States, . . . . .	-	1	1
Former inmates of other hospitals in this State, and of hospitals in other States, . . . . .	-	1	1
Former inmates of foreign hospitals, . . . . .	-	1	1
Former inmates of this hospital and of foreign hospitals, . . . . .	-	1	1
Former inmate of hospital in Montreal, . . . . .	1	-	1
Total of <i>persons</i> , . . . . .	79	96	175

## 13. Discharges Classified by Admission and Result.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	8	13	21	6	1	7	17	26	43	14	16	30	11	12	23	56	68	124
Second, . . . . .	1	4	5	-	-	-	5	5	10	5	5	10	2	-	2	13	14	27
Third, . . . . .	-	1	1	1	-	1	-	2	2	1	-	1	1	-	1	3	3	6
Fourth, . . . . .	1	1	2	-	-	-	-	1	1	-	1	1	-	-	-	1	3	4
Fifth, . . . . .	-	-	-	1	-	1	-	2	2	-	-	-	-	-	-	1	2	3
Sixth, . . . . .	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1
Thirteenth, . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Sixteenth, . . . . .	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Total of cases, . . . . .	10	19	29	8	2	10	23	36	59	20	23	43	14	12	26	75	92	167
Total of persons, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	92	164

14. *How Supported.*

SUPPORTED AS—	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . . .	34	25	59	80.56	59.67	140.23
Town patients, . . .	42	55	97	124.73	145.79	270.52
Private patients, . . .	9	18	27	32.44	31.17	63.61
Total of cases, . . .	85	98	183	237.73	236.63	474.36*

\* This weekly average is 4.100 less than the daily average 474.4.

15. *Cases Discharged Recovered — Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . .	6	5	11	2	2	4	—	—	—
From 1 to 3 months, . . .	3	3	6	6	3	9	5	2	7
3 to 6 months, . . .	1	2	3	1	6	7	4	3	7
6 to 12 months, . . .	—	2	2	1	5	6	—	4	4
1 to 2 years, . . .	—	3	3	—	2	2	1	5	6
2 to 5 years, . . .	—	2	2	—	1	1	—	3	3
5 to 10 years, . . .	—	—	—	—	—	—	—	—	—
10 to 20 years, . . .	—	1	1	—	—	—	—	1	1
Over 20 years, . . .	—	—	—	—	—	—	—	—	—
Unknown, . . .	—	1	1	—	—	—	—	1	1
Total of cases, . . .	10	19	29	10	19	29	10	19	29
Total of persons, . . .	10	19	29	10	19	29	10	19	29
Average of known cases (in months), . . .	1 $\frac{4}{5}$	15 $\frac{1}{5}$	10 $\frac{1}{5}$	2 $\frac{1}{5}$	7 $\frac{1}{5}$	5 $\frac{1}{5}$	3 $\frac{1}{5}$	21 $\frac{1}{5}$	15 $\frac{7}{15}$

## 16. Cases Resulting in Death — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . .	-	-	-	-	-	-	-	-	-
Under 1 month, . .	2	-	2	2	2	4	1	-	1
From 1 to 3 months, .	1	2	3	1	-	1	1	2	3
3 to 6 months, . .	2	2	4	2	1	3	1	-	1
6 to 12 months, . .	-	1	1	1	1	2	1	-	1
1 to 2 years, . . .	2	2	4	2	1	3	1	-	1
2 to 5 years, . . .	2	3	5	-	2	2	2	2	4
5 to 10 years, . . .	1	1	2	4	4	8	1	4	5
10 to 20 years, . .	1	1	2	1	-	1	1	3	4
Over 20 years, . . .	-	-	-	1	1	2	2	1	3
Unknown, . . . . .	3	-	3	-	-	-	3	-	3
Totals, . . . . .	14	12	26	14	12	26	14	12	26
Average of known cases (in months), . . . .	35 $\frac{7}{8}$	31 $\frac{1}{8}$	33 $\frac{8}{16}$	64 $\frac{1}{4}$	66 $\frac{5}{14}$	65 $\frac{1}{2}$	100 $\frac{1}{2}$	97 $\frac{1}{8}$	99 $\frac{8}{16}$

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Epilepsy acquired, . . .	-	-	-	2	-	2
General paralysis of the insane, . . . . .	-	-	-	2	-	2
Mania, acute, . . . . .	5	8	13	2	-	2
chronic, . . . . .	-	-	-	5	6	11
recurrent, . . . . .	-	6	6	1	-	1
a potu, . . . . .	2	-	2	1	-	1
puerperal, . . . . .	-	1	1	-	1	1
Melancholia, acute, . . .	2	3	5	-	1	1
recurrent, . . . . .	1	-	1	-	-	-
Dementia, primary, . . .	-	-	-	1	3	4
senile, . . . . .	-	-	-	-	1	1
Inebriate, . . . . .	-	1	1	-	-	-
Totals, . . . . .	10	19	29	14	12	26

18. *Causes of Death.*

CAUSES.	Males.	Females.	Totals.
<b>Nervous system,—</b>			
Organic disease of the brain, . . .	—	1	1
Exhaustion of acute mania, . . .	1	—	1
Exhaustion, . . . . .	—	1	1
Typhomania, . . . . .	—	1	1
General paralysis of the insane, . . .	2	1	3
Paralysis, . . . . .	1	1	2
Epilepsy, . . . . .	2	—	2
Exhaustion from litholapaxy, . . .	1	—	1
<b>Respiratory,—</b>			
Phthisis, . . . . .	3	4	7
Pneumonia, . . . . .	2	—	2
<b>Circulatory,—</b>			
Heart disease, . . . . .	—	1	1
<b>Zymotic,—</b>			
Malarial fever, . . . . .	—	1	1
Erysipelas, . . . . .	1	—	1
<b>General,—</b>			
Old age, . . . . .	1	1	2
<b>Totals, . . . . .</b>	<b>14</b>	<b>12</b>	<b>26</b>



## 19. Deaths, Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		TOTALS.	
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Totals.
Second, . . . .	-	-	-	-	-	1	1	-	1	2
Third, . . . .	1	-	1	-	-	-	-	-	-	1
Totals, . . . .	1	-	1	-	-	1	1	-	1	3

## 20. Recoveries, Classified by Results of Previous Admissions.\*

NUMBER OF THE ADMISSION.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		TOTALS.	
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Totals.
Second, . . . .	1	3	4	-	1	1	-	-	-	4
Third, . . . .	-	1	1	-	-	-	-	-	-	1
Fourth, . . . .	1	1	2	-	-	-	-	-	-	1
Total, . . . .	2	5	7	-	1	1	-	-	-	6
										8

\* In all cases of more than one admission, the classification is based upon the result of the admission next preceding the last, in each case respectively.

## 21. Deaths Classified by Duration of Insanity and of Treatment.

PERIOD.	DURATION OF INSANITY. "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Under 1 month, . . . . .	—	—	—	2	2	4
From 1 to 3 months, . . . . .	1	1	2	—	—	—
3 to 6 months, . . . . .	1	—	1	2	1	3
6 to 12 months, . . . . .	1	—	1	2	—	2
1 to 2 years, . . . . .	1	—	1	2	1	3
2 to 5 years, . . . . .	2	1	3	—	2	2
5 to 10 years, . . . . .	—	3	3	3	4	7
10 to 20 years, . . . . .	1	3	4	2	1	3
Over 20 years, . . . . .	3	2	5	1	1	2
Unknown, . . . . .	4	2	6	—	—	—
Totals, . . . . .	14	12	26	14	12	26
Average of known cases (in months), . . . . .	119 $\frac{1}{2}$	182 $\frac{1}{2}$	151 $\frac{1}{2}$	69 $\frac{2}{5}$	69 $\frac{1}{2}$	69 $\frac{1}{2}$

## 22. Ages of those who Died.

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteen years and less, . . . . .	—	—	—	—	—	—
From 15 to 20 years, . . . . .	3	1	4	—	—	—
20 to 25 years, . . . . .	—	—	—	—	—	—
25 to 30 years, . . . . .	1	1	2	1	1	2
30 to 35 years, . . . . .	1	1	2	2	—	2
35 to 40 years, . . . . .	1	—	1	1	1	2
40 to 50 years, . . . . .	1	3	4	2	—	2
50 to 60 years, . . . . .	4	1	5	5	6	11
60 to 70 years, . . . . .	—	1	1	2	—	2
70 to 80 years, . . . . .	—	1	1	1	1	2
Over 80 years, . . . . .	—	—	—	—	2	2
Unknown, . . . . .	3	3	6	—	1	1
Totals, . . . . .	14	12	26	14	12	26

*23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1886.*

YEARS.	NEW CASES (FIRST ADMISSION).																		
	ADMITTED.			DISCHARGED AND DIED IN 1885-86.						DIED.									
	Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.				IMPROVED.			UNIMPROVED.					
				Males.	Females.	Total.	Males.	Females.	Total.		Males.	Females.	Total.	Males.	Females.	Total.			
1858, 2 months.	99	129	228																
1858-59.	42	46	88																
1859-60.	66	91	157																
1860-61.	58	46	104																
1861-62.	51	43	94																
1862-63.	56	57	113																
1863-64.	35	30	65																
1864-65.	54	55	109																
1865-66.	66	52	118																
1866-67.	42	69	111																
1867-68.	54	71	125																
1868-69.	72	64	136																
1869-70.	80	103	183																
1870-71.	93	88	181																
1871-72.	83	85	168																
1872-73.	89	69	158																

	1,761	1,782	3,533	8	13	21	6	1	7	17	26	43	14	16	30	11	12	23
1873-74, . . .	86	69	155	-	-	-	-	-	-	-	-	5	5	-	1	-	-	-
1874-75, . . .	61	62	123	-	-	-	-	-	-	-	-	2	1	1	2	-	-	-
1875-76, . . .	63	63	126	-	-	-	-	-	-	-	-	2	2	2	2	1	-	-
1876-77, . . .	55	55	110	-	-	-	-	-	-	-	-	1	1	-	-	2	1	3
1877-78, . . .	31	24	55	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
1878-79, . . .	49	34	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1879-80, . . .	50	47	97	-	-	-	-	-	-	-	-	-	1	1	1	1	1	2
1880-81, . . .	48	49	97	-	-	-	-	-	-	-	-	1	1	1	2	-	1	1
1881-82, . . .	60	52	102	-	-	-	-	-	-	-	-	1	1	-	1	-	2	2
1882-83, . . .	65	53	117	-	-	-	-	-	-	-	-	3	-	-	-	-	-	1
1883-84, . . .	97	58	95	-	1	1	-	1	3	-	-	7	-	-	-	-	1	1
1884-85, . . .	53	46	99	-	6	8	3	-	3	4	3	2	5	10	4	2	-	2
1885-86, . . .	63	73	136	-	6	12	3	-	3	9	2	11	6	5	15	4	4	8
Totals, . . .	1,761	1,782	3,533	8	13	21	6	1	7	17	26	43	14	16	30	11	12	23

23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1886—Concluded.

YEARS.	RE-ADMITTED CASES.										REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1886.							
	ADMITTED.			DISCHARGED AND DIED IN 1885-86.														
				RECOVERED.			MUCH IMPROVED.			IMPROV'D.				UNIMPROVED.			DIED.	
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, 2 months.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1858-59.	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1859-60.	7	3	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1860-61.	13	7	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1861-62.	13	6	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1862-63.	14	11	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1863-64.	12	15	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1864-65.	16	9	25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1865-66.	9	9	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1866-67.	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1867-68.	14	13	27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1868-69.	12	21	33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1869-70.	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1870-71.	16	14	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1871-72.	18	13	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1872-73.	13	10	23	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

## 24. Relapsed Cases Admitted in each Year, and Discharged in 1885-86.

YEARS.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.												REMAINING SEPT. 30, 1886.					
	ADMITTED.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, 2 months,	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
1858-59,	2	1	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1859-60,	6	1	7	6	1	7	6	1	7	6	1	7	6	1	7	6	1	7
1860-61,	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15
1861-62,	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8
1862-63,	5	8	13	5	8	13	5	8	13	5	8	13	5	8	13	5	8	13
1863-64,	6	10	16	6	10	16	6	10	16	6	10	16	6	10	16	6	10	16
1864-65,	8	4	12	8	4	12	8	4	12	8	4	12	8	4	12	8	4	12
1865-66,	4	3	7	4	3	7	4	3	7	4	3	7	4	3	7	4	3	7
1866-67,	11	6	17	11	6	17	11	6	17	11	6	17	11	6	17	11	6	17
1867-68,	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15
1868-69,	6	9	15	6	9	15	6	9	15	6	9	15	6	9	15	6	9	15
1869-70,	5	4	9	5	4	9	5	4	9	5	4	9	5	4	9	5	4	9
1870-71,	5	6	11	5	6	11	5	6	11	5	6	11	5	6	11	5	6	11
1871-72,	8	6	14	8	6	14	8	6	14	8	6	14	8	6	14	8	6	14
1872-73,	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12
1873-74,	7	8	15	7	8	15	7	8	15	7	8	15	7	8	15	7	8	15
1874-75,	2	5	7	2	5	7	2	5	7	2	5	7	2	5	7	2	5	7
1875-76,	5	6	11	5	6	11	5	6	11	5	6	11	5	6	11	5	6	11







DISCHARGED.																												
Not Inmate.	Males, ..	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Females, ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total, ..	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DIED.	Condition not reported, ..	-	-	3	4	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Males, ..	-	7	8	15	9	19	17	17	18	23	25	13	22	16	19	13	14	23	18	21	14	14	17	16	24	17	12
	Females, ..	-	12	19	15	9	7	30	24	13	24	18	12	11	12	18	8	11	19	19	21	9	9	12	10	14	13	11
	Total, ..	-	19	27	30	18	26	47	41	31	47	43	25	33	28	37	21	25	41	37	42	23	23	29	26	38	30	25
Whole No. of cases in year, }		228	313	400	437	444	469	476	468	488	543	565	590	604	616	619	614	626	629	629	603	561	535	559	569	587	606	605
No. of patients at end of year, }		220	233	315	332	332	383	334	352	405	413	421	402	406	420	433	433	476	476	464	475	429	442	446	463	459	469	463

26. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	286.19	65.04	107.23	408.46
1870-71, . . . .	284.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.84	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	55.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84
1885-86, . . . .	140.23	270.52	63.61	474.36

27. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1885.</b>		
October, . . . . .	39,550	1,275.8
November, . . . . .	45,900	1,530.
December, . . . . .	51,650	1,666.13
<b>1886.</b>		
January, . . . . .	50,500	1,629.03
February, . . . . .	40,000	1,428.93
March, . . . . .	86,700	1,183.87
April, . . . . .	27,000	903.93
May, . . . . .	19,800	638.71
June, . . . . .	15,960	532.
July, . . . . .	14,600	470.97
August, . . . . .	19,900	641.94
September, . . . . .	27,800	926.67
Total, . . . . .	389,460	1,067.01*

\* Daily average for the year.

## 28. Supplies for the Several Departments for the Year 1885-86.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Rubber sheets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtains.	Wash-bowls.	Knives.	Chambers.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Saucers.	Tumbler.	Mugs.	Bowls.	Pitchers.	Syrup Cups.	Knives.	Forks.	Lanterns.
<i>Men's Department.</i>																											
Upper 1st Hall, . . .	12	6	4	—	—	3	—	12	4	1	2	—	—	—	—	10	9	24	30	18	—	—	3	—	—	3	—
2d Hall, . . .	18	12	6	4	—	1	—	6	—	2	—	9	2	—	—	4	7	6	36	12	—	—	12	—	2	2	—
3d and 4th Halls, . . .	18	44	6	—	—	1	—	6	—	1	—	17	1	—	—	3	24	12	42	2	—	—	9	—	4	4	—
Middle 1st Hall, . . .	16	46	—	6	—	7	—	4	3	2	—	13	—	—	—	2	12	18	24	2	—	—	5	—	2	2	—
2d Hall, . . .	24	28	—	12	—	1	—	—	2	—	—	14	—	—	—	4	30	6	18	—	—	—	2	—	—	3	—
3d and 4th Halls, . . .	48	36	—	12	—	2	—	6	—	—	—	21	—	—	—	—	6	—	6	—	—	2	—	—	—	—	—
Lower 1st Hall, . . .	24	36	—	12	—	4	—	4	—	—	—	8	—	—	—	—	18	—	12	—	—	3	—	—	—	—	—
2d Hall, . . .	38	36	—	—	—	—	—	4	2	1	—	17	—	—	2	—	6	3	6	—	—	—	—	—	—	—	—
3d and 4th Halls, . . .	24	28	—	12	—	2	—	6	2	—	—	12	—	—	—	—	3	—	—	—	—	—	—	—	—	—	—
<i>Women's Department.</i>																											
Upper 1st Hall, . . .	12	28	6	6	—	12	2	36	6	4	3	12	—	—	—	—	12	—	—	—	—	—	—	—	—	3	—
2d Hall, . . .	12	24	6	—	8	14	2	22	2	1	1	12	2	—	—	3	18	30	30	42	—	—	12	—	4	—	—
3d Hall, . . .	12	36	—	6	8	7	—	12	6	1	—	9	—	—	—	6	6	42	42	12	—	—	6	—	—	—	—
4th Hall, . . .	—	—	6	6	7	—	6	16	—	3	3	—	3	—	—	7	18	18	60	12	—	—	1	—	—	—	—
Middle 1st Hall, . . .	46	48	—	6	—	—	6	24	4	3	1	18	1	—	—	12	24	18	60	12	—	—	18	—	—	—	—
2d Hall, . . .	60	54	18	—	14	1	—	16	5	—	—	18	—	—	—	39	24	18	60	12	—	—	1	—	—	—	—
3d Hall, . . .	60	30	—	6	10	1	4	16	3	—	—	18	—	—	—	23	12	6	—	—	—	—	—	—	—	—	—
4th Hall, . . .	12	31	—	—	8	1	1	12	3	—	—	12	—	—	—	9	12	6	—	—	—	—	—	—	—	—	—
Lower 1st Hall, . . .	24	24	12	1	—	—	—	40	4	—	3	15	—	—	—	9	—	12	12	30	—	—	2	—	3	3	—
2d Hall, . . .	64	40	2	12	12	4	—	38	6	—	—	12	—	—	—	—	—	—	—	—	—	6	—	—	—	—	—
3d Hall, . . .	36	—	—	—	4	3	—	12	4	1	—	12	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—
4th Hall, . . .	12	12	—	—	1	—	—	4	2	—	—	6	—	—	—	—	6	—	6	—	—	—	—	—	—	—	—
Kitchen, . . .	15	27	5	—	—	—	—	—	1	—	—	—	—	—	—	—	276	36	84	—	—	36	—	—	—	—	—
Rear, . . .	16	—	—	—	—	—	—	24	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Centre, . . .	14	6	—	—	—	—	—	28	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aggregate, . . .	611	644	71	89	78	63	27	346	64	19	15	243	8	14	208	66	505	222	420	212	108	124	31	1	31	86	8

## 28. Supplies for the Several Departments for the Year 1885-86 — Concluded.

	Spoons.	Glass Castles.	Table-spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish-towels.	Rollers.	Wash-basins.	Brooms.	Soap, pounds.	Whisks.	Dust-brushes.	Scrub-brushes.	Dust-pans.	Mops.	Pails.	Rapitons.	Blacking.	Shoe-brushes.	Spools thread.	Tapers Needles.	Papers Pins.	Rubber Chambers.
<i>Men's Department.</i>																									
Upper 1st Hall, . . .	6	1	1	12	—	—	12	12	—	—	13	36	6	1	2	1	2	1	1	1	9	1	3	3	—
2d Hall, . . .	—	—	—	12	—	—	12	12	9	—	17	50	—	—	—	—	—	—	—	—	7	1	4	1	—
3d and 4th Halls, . .	6	—	—	17	—	—	18	24	30	1	16	44	3	1	3	1	3	2	3	11	10	2	—	1	2
Middle 1st Hall, . . .	—	—	—	17	—	—	17	24	30	—	26	70	2	2	1	1	1	2	2	4	20	3	1	—	—
2d Hall, . . .	—	—	—	—	—	—	—	12	24	—	37	48	1	1	2	1	2	2	3	16	2	2	1	—	—
3d and 4th Halls, . .	—	—	—	18	—	—	18	24	30	6	11	30	1	3	1	1	2	1	3	8	1	2	1	—	10
Lower 1st Hall, . . .	—	—	—	—	—	—	—	24	24	2	21	64	2	3	1	—	4	6	1	17	1	2	—	—	—
2d Hall, . . .	6	1	—	—	—	—	6	24	12	1	25	100	2	1	—	—	3	7	—	21	—	—	2	—	—
3d and 4th Halls, . .	—	—	—	—	—	—	—	24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Women's Department.</i>																									
Upper 1st Hall, . . .	6	3	2	—	—	—	6	18	—	—	5	42	3	1	—	—	1	1	2	—	—	—	1	2	2
2d Hall, . . .	—	—	—	—	—	—	6	12	—	—	23	56	—	—	—	—	—	—	—	—	—	—	—	7	4
3d Hall, . . .	12	—	—	—	—	—	—	6	—	—	14	44	1	—	—	—	4	2	—	—	—	—	10	9	—
4th Hall, . . .	—	—	—	—	—	—	36	6	—	1	12	52	1	1	1	1	4	—	—	—	—	—	16	11	—
Middle 1st Hall, . . .	6	—	2	—	—	—	12	12	—	—	7	46	1	1	—	—	—	—	—	—	—	—	9	5	—
2d Hall, . . .	12	3	3	—	—	—	12	12	—	2	20	82	—	1	—	—	1	3	3	—	—	—	39	14	3
3d Hall, . . .	—	—	—	—	—	—	—	—	—	1	13	62	—	—	—	—	1	1	1	—	—	—	24	8	—
4th Hall, . . .	—	—	4	—	—	—	—	12	—	—	8	50	—	2	—	—	2	2	2	—	—	—	13	2	—
Lower 1st Hall, . . .	—	—	3	—	—	—	12	—	—	—	22	68	—	3	—	—	2	2	2	—	1	—	14	6	—
2d Hall, . . .	—	—	—	—	—	—	—	—	—	—	32	94	—	4	—	—	2	2	2	—	—	—	37	9	—
3d Hall, . . .	—	—	—	—	—	—	—	—	—	—	7	50	—	2	—	—	2	2	2	—	—	—	35	6	—
4th Hall, . . .	—	—	—	—	—	—	—	—	—	—	5	18	—	2	—	—	2	2	2	—	—	—	16	2	—
Kitchen, . . .	—	—	—	—	—	—	—	—	—	—	61	55	—	1	—	—	2	10	—	—	1	—	—	—	—
Rear, . . .	—	—	—	—	—	—	—	—	18	2	88	160	6	4	1	1	2	4	—	—	—	—	—	10	—
Centre, . . .	—	—	—	—	—	—	—	18	3	—	6	78	3	1	2	3	2	—	—	2	—	—	—	2	—
Aggregate, . . .	54	12	18	12	72	57	203	262	165	12	505	1,467	31	44	16	13	46	54	9	123	15	237	38	108	20

29. *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING- ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1885.</b>								
October, .	847	155	233	388	250	54	342	396
November, .	679	150	218	368	203	50	325	375
December, .	567	155	238	393	356	54	385	499
<b>1886.</b>								
January, .	530	155	201	356	271	52	352	404
February, .	446	140	187	327	205	48	309	357
March, .	492	155	193	348	255	54	345	399
April, .	767	150	185	335	252	49	318	367
May, .	758	155	199	354	259	41	349	390
June, .	838	150	192	342	209	52	358	410
July, .	847	155	215	370	242	54	349	403
August, .	864	155	187	342	269	52	345	397
September, .	869	150	175	325	250	52	352	404
Totals, .	8,502	1,825	2,423	4,248	3,021	612	4,129	4,741

The patients whose work is recorded in this table were employed as many hours in the day as were the employees in each of the several departments, respectively. The total number of days' work is 20,512, to which may be added 810 days, by men, in the mattress room, making an aggregate of 21,322 days.

No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler room and the carpenter's shop. A large amount of other work is done, both in the halls and, at irregular times, out of them.

*30. List of Articles made in the Sewing-Room.*

Dresses, . . . . .	301	Bolster-cases, . . . . .	54
Waists, . . . . .	10	Mattress-ticks, . . . . .	44
Chemises, . . . . .	306	Straw-ticks, . . . . .	8
Drawers, . . . . .	57	Pillow-ticks, . . . . .	52
Skirts, . . . . .	185	Bed-spreads hemmed, . . . . .	71
Sacques, . . . . .	11	Curtains, . . . . .	59
Night-dresses, . . . . .	23	Napkins hemmed, . . . . .	24
Hats trimmed, . . . . .	12	Table-cloths, . . . . .	8
Shirts, . . . . .	301	Dish-towels, . . . . .	388
Blouses, . . . . .	10	Roller-towels, . . . . .	247
Suspenders, pairs, . . . . .	240	Carpets made, . . . . .	6
Collars, . . . . .	196	Carpets-strips hemmed, . . . . .	60
Aprons, . . . . .	197	Clothes-bags, . . . . .	8
Camisoles, . . . . .	30	Bureau covers, . . . . .	72
Sheets, . . . . .	724	Ox-blankets, . . . . .	4
Pillow-cases, . . . . .	599	Articles repaired, . . . . .	21,471

*31. Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	35
Hair mattresses made, new ticks, . . . . .	20
Hair mattresses overhauled, hair repicked, . . . . .	42
New husk underbeds made, new materials, . . . . .	15
Old underbed ticks filled with new husks, . . . . .	74
Hair pillows made, new materials, . . . . .	28
Hair pillows overhauled, hair repicked, . . . . .	48

*32. Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 23
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.4	1 86

The hospital has always been supplied with gas by the Northampton Gas Light Company. Until April 1, 1879, the price was \$3.25 per thousand cubic feet, with an additional charge for meter rent. From that date to July 1, 1884, it was \$3, including meter-rent, with a discount of five per cent. during the last four years of the period. From July 1, 1884, to April 1, 1886, it was \$2.50, with a discount of five per cent.; and since the date last mentioned it has been \$2.25, with ten per cent. discount.



*33. Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,*	Northampton, .	1856	1857	Term expired.
Lucien C. Boynton,*	Uxbridge, .	1856	1858	" "
Eliphalet Trask, .	Springfield, .	1856	1875	" "
John C. Russell,*	Great Barrington, .	1856	1859	Resigned.
Horace Lyman, .	Greenfield, .	1856	1857	Removed.
Charles Smith, .	Northampton, .	1857	1860	Resigned.
Luther V. Bell,*	Somerville, .	1857	1859	"
Zebina L. Raymond,*	Greenfield, .	1858	1859	"
Franklin Ripley,*	Greenfield, .	1859	1860	Died in office.
Edward Dickinson*	Amherst, .	1859	1864	Resigned.
Walter Lavin,*	Pittsfield, .	1859	1866	Term expired.
Silas M. Smith, .	Northampton, .	1860	1863	" "
Charles Allen, .	Greenfield, .	1860	1861	Resigned.
Alfred R. Field,*	Greenfield, .	1861	1864	"
Edward Hitchcock, .	Amherst, .	1863	1879	"
Silas M. Smith, .	Northampton, .	1864	-	Still in office.
Edmund H. Sawyer,*	Easthampton, .	1864	1879	Died in office.
Henry L. Sabin,*	Williamstown, .	1866	1876	Term expired.
Adams C. Deane, .	Greenfield, .	1875	-	Still in office.
Henry W. Taft, .	Pittsfield, .	1876	-	" "
William M. Gaylord,	Northampton, .	1879	1883	Term expired.
Lyman D. James, .	Williamsburg, .	1879	-	Still in office.
Christop'r C. Merritt,	Springfield, .	1883	-	" "
Sarah A. Woodworth,	Chicopee, .	1884	-	" "
Sarah M. Butler, .	Northampton, .	1884	-	" "

\* Deceased.

*34. Officers and Employees.*

Time employed, October 1, 1886.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M. D., Superintendent, . . . . .	17	9	16
Daniel Pickard, M. D., 1st Assistant Physician, . . . . .	9	5	24
Charles G. Dewey, M. D., 2d Assistant Physician, . . . . .	—	—	17
Emily F. Wells, M. D., 3d Assistant Physician, . . . . .	1	9	—
Walter B. Welton, Clerk, . . . . .	20	7	16
John Mercier, Farmer, . . . . .	19	2	—
Danford Morse, Engineer, . . . . .	21	6	9
Robert H. Gallivan, Supervisor, . . . . .	13	5	13
Lucy A. Gilbert, Supervisor, . . . . .	19	7	20
F. Josephus Rice, Steward, . . . . .	27	11	26
Gertrude C. Arnold, Seamstress, . . . . .	2	8	27
George B. Walker, Baker, . . . . .	2	3	22
Jennie M. Smith, Assistant Clerk, . . . . .	1	7	8
Mary M. Phinney, Assistant Supervisor, . . . . .	3	4	10
Ida R. Howes, Assistant Seamstress, . . . . .	5	1	12
Ida D. Hyde, Laundress, . . . . .	2	4	6
Bridget Torpey, Assistant Laundress, . . . . .	1	2	3
Hattie Burnham, Assistant Laundress, . . . . .	—	2	9
Henry W. Estey, Attendant, . . . . .	4	6	7
William J. Douglass, Attendant, . . . . .	4	6	5
John L. Howard, Attendant, . . . . .	4	3	25
Walter W. Burnham, Attendant, . . . . .	2	11	7
Thomas P. Clair, Attendant, . . . . .	2	—	4
Herbert E. Phinney, Attendant, . . . . .	2	—	—
James M. Shipperly, Attendant, . . . . .	1	8	1
William J. Estler, Attendant, . . . . .	1	1	27
Thomas Lavelle, Attendant, . . . . .	—	6	23
James E. Gerard, Attendant, . . . . .	—	5	28
Fred L. Lamphere, Attendant, . . . . .	—	5	28
Charles J. Gale, Attendant, . . . . .	—	3	14
Edward L. Lacore, Attendant, . . . . .	—	1	28
Maria E. Graves, Attendant, . . . . .	18	8	9
Jane McGuire, Attendant, . . . . .	11	5	5
Cécile Riel, . . . . .	9	11	25
Frances F. Poor, Attendant, . . . . .	7	11	15
Barbara McDonald, Attendant, . . . . .	5	2	11
Flora R. Brown, Attendant, . . . . .	3	9	25
Jeanette McLean, Attendant, . . . . .	3	1	3
Nellie D. Parker, Attendant, . . . . .	2	6	17
Philomene Goyette, Attendant, . . . . .	3	6	13
Celeste Goyette, Attendant, . . . . .	3	—	3
Lavinia Trenholm, Attendant, . . . . .	1	8	20
Harriet Strong, Attendant, . . . . .	1	3	13
Nellie E. Stearns, Attendant, . . . . .	1	3	2
Maggie F. McKenna, Attendant, . . . . .	2	4	21
Effie Clapp, Attendant, . . . . .	—	3	17
Elizabeth M. Pomeroy, Attendant, . . . . .	—	2	5
Lucie L. Barrett, Attendant, . . . . .	—	—	12
Jessie A. Rand, Night Watch, . . . . .	5	3	11

34. *Officers and Employees* — Concluded.

NAMES.	Years.	Months.	Days.
Hattie Halladay, Farmers' Dining Room, . . . . .	12	2	14
Hattie Gamwell, Centre, . . . . .	2	7	27
Thomas C. Powers, Assistant Steward, . . . . .	12	6	11
Mary L. Willard, Centre, . . . . .	1	—	—
Lillian M. Douglass, Cook, . . . . .	4	11	22
Mary Meagher, Assistant Cook, . . . . .	—	4	21
Mary Sweeny, Assistant Cook, . . . . .	2	1	1
Lena Marble, Assistant Cook, . . . . .	1	2	7
Mary A. Carnes, Rear, . . . . .	3	3	—
William C. Hall, Assistant Engineer, . . . . .	21	—	20
Nicholas Riel, Night Engineer, . . . . .	10	9	25
Moses Bartlett, Watchman, . . . . .	1	6	—
Sifroi Belville, Carpenter, . . . . .	16	5	7
Walter Tower, Carpenter, . . . . .	9	10	—
Alfred Parenteau, Painter, . . . . .	21	1	18
David Mercier, Coachman, . . . . .	9	7	14
Benjamin Rockwell, Assistant Farmer, . . . . .	19	4	—
Julius Freeman, Assistant Farmer, . . . . .	9	2	24
Henry Wilson, Assistant Farmer, . . . . .	7	5	8
James Madden, Assistant Farmer, . . . . .	11	—	29
Eugene Sullivan, Assistant Farmer, . . . . .	11	5	—
William C. Albray, Assistant Farmer, . . . . .	2	5	27
Erie Ditty, Assistant Farmer, . . . . .	3	9	7
George E. Hunter, Assistant Farmer, . . . . .	—	5	19
Loren Tower, Car Boy, . . . . .	1	—	18

THIRTY-SECOND ANNUAL REPORT  
OF  
THE TRUSTEES  
OF THE  
NORTHAMPTON LUNATIC HOSPITAL,  
FOR THE  
YEAR ENDING SEPTEMBER 30, 1887.

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BOSTON :  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,  
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1888.



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# OFFICERS

OF THE

## NORTHAMPTON LUNATIC HOSPITAL.

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### TRUSTEES.

HON. CHRISTOPHER C. MERRITT,	. . .	SPRINGFIELD.
MRS. SARAH M. BUTLER,	. . . .	NORTHAMPTON.
MRS. SARAH A. WOODWORTH,	. . . .	CHICOPEE.
ADAMS C. DEANE, M.D.,	. . . .	GREENFIELD.
HENRY W. TAFT, Esq.,	. . . .	PITTSFIELD.
HON. JOHN L. OTIS,	. . . .	NORTHAMPTON.
LYMAN D. JAMES, Esq.,	. . . .	WILLIAMSBURG.

### RESIDENT OFFICERS. .

EDWARD B. NIMS, M.D ,	. .	SUPERINTENDENT.
		FIRST ASSISTANT PHYSICIAN.
DAVID G. HALL, M.D.,	. . .	SECOND ASSISTANT PHYSICIAN.
EMILY F. WELLS, M.D.,	. .	THIRD ASSISTANT PHYSICIAN.
WALTER B. WELTON,	. . .	CLERK.
JOHN MERCIER,	. . . .	FARMER.
DANFORD MORSE,	. . . .	ENGINEER.

### TREASURER.

EDWARD B. NIMS,	. . . . .	NORTHAMPTON.
Office at the Hospital.		

### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN,	. . . .	MALE SUPERVISOR.
LUCY A. GILBERT,	. . . .	FEMALE SUPERVISOR.
F. JOSEPHUS RICE,	. . . .	STEWARD.
SUSAN A. MILLER,	. . . .	SEAMSTRESS.
NETTIE LYMAN,	. . . .	LAUNDRESS.
GEORGE B. WALKER,	. . . .	BAKER.





# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The Trustees of the Northampton Lunatic Hospital have the honor to submit their thirty-second annual report for the fiscal year 1886-87, together with the reports of the Treasurer and Superintendent, and the tables of statistics, giving in detail the condition and operations of the hospital.

This report does not record any special change or event, but gives the regular every-day work of the year. The Trustees have visited and inspected the hospital at their regular monthly meetings, and occasionally at other times.

The monthly reports of the Superintendent have kept them fully informed of the changes that have occurred, and the frequent conferences upon matters of business have furnished a full understanding of the condition of affairs. The number of admissions for the year was 148; this number is less than in the preceding year. The number of re-admissions is smaller than usual, which makes the number of first admissions, not including transfers from other hospitals, larger than in the preceding year by nine. Whether this increase, which is quite regular, can be taken as an indication of a real increase in insanity we must leave for more comprehensive statistics to decide. No transfers have been made from other hospitals during the year, on the other hand a transfer of eleven patients was made to the

Westborough Lunatic Hospital, of ten patients to the Worcester Chronic Asylum, and of ten to the State Farm. A considerable number of patients were removed to city and town almshouses.

The number of patients at the beginning of the year was 491; of men, 244; of women, 247. The number admitted during the year was 148; of men, 72; of women, 76. Of these 30 were State patients, 92 town patients and 26 private patients. The whole number under treatment during the year was 639; of men, 316; of women, 323; 170 patients were discharged; of men, 92; of women, 78; 13 men and 18 women died. The number at the close of the year was 469; of men, 224; of women, 245. The average daily number of men was 233.27; of women, 245.28; the total average was 478.55.

Of the 170 patients discharged 27 were reported as recovered, 7 much improved, 67 improved, 37 unimproved. The largest number on any one day in the year was 494. The smallest number was 459. The number of patients who were discharged on probation under the sixty days law was 48; of these 4 were returned before the expiration of the legal time. The remainder are included in the general number of discharges. The number of deaths was 31, which is 4.85 per cent. on the whole number treated, about an average rate. No suicide occurred during the year.

The hospital is now in the thirtieth year of its existence. During this period no addition has ever been made to that part which has been occupied by patients. Nor has there been any important change in construction.

The wear and tear of the building, occasioned by constant and hard usage, requires a large outlay annually for ordinary repairs. It is evident that the inevitable deterioration of the buildings will require a larger outlay of money for extraordinary repairs and improvements to keep the hospital up to its proper standard.

The funds of the institution have so far been sufficient to provide for all necessary demands. It is to be hoped that there will be no change in this respect in the future, though it must be expected that there will be a steady and increasing

demand upon the surplus funds. The original construction of the hospital was faulty in some respects, especially in the means provided for the admission of light and air into the third sections of the wings. In order to remedy this defect the corridors on the male wing have been enlarged nearly one-half, by removing partitions, and adding the attendants' rooms to the halls. The sanitary changes have been continued; all the water-closets in the hospital have now been refitted and furnished with new and modern apparatus and efficient ventilation.

The new system of water-pipes laid last year have furnished the hospital with an abundant supply of excellent water. The sanitary condition of the buildings is now considered to be satisfactory. The floors in the halls of the men's department have been relayed with quartered southern pine. New furniture has been added, including thirty large black walnut settees.

In the original purchase of the site for the hospital two parcels of land which are included in the regular boundaries of the premises were omitted, it is supposed by mistake. The first contains about one-eighth of an acre, situated on the eastern boundary, near the Mill River dam, and was formerly occupied by Messrs Wright and Rust's ice-house. The second is on the southern boundary, about one-fourth of an acre in extent. It was enclosed in the hospital garden and has been cultivated for many years. These tracts have been purchased during the past year of Theodore Rust. A piece of land 129 rods in extent, lying along the southern boundary of the Clarke orchard, was also purchased.

The improvements upon the farm have been continued; in the western pasture fourteen acres of unimproved land being now under cultivation. The farm continues to increase in productiveness and in value to the hospital as a source of supply of food. It now contains about 365 acres. The new farm buildings erected last year have been fitted up for use, and are found to be very convenient and useful. The experiment with ensilage last year was successful, and will be continued on a larger scale.

The plan of placing the criminal and vicious classes of the insane in an institution by themselves is, in the opinion of the Trustees of this hospital, a move in the right direction. They are always a disturbing element in the wards of a hospital, both in their habits and in their resistance to good order and discipline. In the present arrangement of this hospital they are necessarily brought in contact with other patients. It is no more just to compel the insane of good character to associate with them than it would be the sane.

We have to record the death of Mr. Silas M. Smith, who was a member of this Board for twenty-six years. He always had a special interest in the welfare and prosperity of the hospital, and his services were valuable from his intimate acquaintance with the affairs of the institution, and the active part that he always took in the business that devolves upon this Board.

The money received for the board of patients during the year is as follows :—

For State patients, . . . . .	\$20,853 99
town patients, . . . . .	49,186 54
private patients, . . . . .	17,879 71
Total, . . . . .	<u>\$87,920 24</u>

The financial statement for September 30, 1887, is as follows :—

The reserve fund, . . . . .	\$10,000 00
And cash assets available for future use, . . . . .	29,673 10
Total, . . . . .	<u>\$39,673 10</u>
And liabilities, bills payable, . . . . .	5,503 21
Balance in favor of the hospital, . . . . .	<u>\$34,169 89</u>

Dr. Daniel Pickard resigned the office of assistant physician July 1 to take effect October 1. Dr. Hall, who was granted a leave of absence for a year to study in Europe, resumed his work in September. Dr. Charles G. Dewey acted as assistant physician during the vacancy and performed his duties satisfactorily.

The superintendent, Dr. Nims, has now been in office for two years, and he has in all respects justified the opinion formed by the Trustees of his fitness for his position, derived from long acquaintance with him in the discharge of his duties as assistant physician of the hospital.

The Trustees are agreed that the management of the hospital under his charge is in safe and efficient hands.

C. C. MERRITT,  
J. L. OTIS,  
SARAH M. BUTLER,  
SARAH A. WOODWORTH,  
A. C. DEANE,  
HENRY W. TAFT,  
LYMAN D. JAMES,  
*Trustees.*

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1887.

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Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, 2d, . . . . .	" 800 00
Assistant physician, 3d, . . . . .	" 700 00
Treasurer, . . . . .	" 300 00
Treasurer for clerk-hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 20 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 16 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 14 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 16 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 58 33
Assistant steward, . . . . .	" 35 00
Attendants (male) (10), . . . . .	" 30 00
Attendants (male) (2), . . . . .	" 21 00
Attendant (female) (1), . . . . .	" 20 00
Attendants (female) (12), . . . . .	" 18 00
Attendant (female) (1), . . . . .	" 14 00
Night-watch (female), . . . . .	" 18 00
House-work, centre (female), . . . . .	" 16 00
House-work, centre (female), . . . . .	" 15 00
Cook (female), . . . . .	" 18 00
Assistant cook (male), . . . . .	" 18 00
Assistant cook (female) (1), . . . . .	" 15 00
Assistant cooks (female) (2), . . . . .	" 14 00

Farmers' dining room (female), . . . . .	per month,	\$15 00
House-work, rear building (female), . . . . .	"	10 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenters, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Assistant engineer, . . . . .	"	32 00
Night engineer and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	28 00
Farm hands (6), . . . . .	"	28 00
Farm hand (1), . . . . .	"	25 00
Farm hand (1), . . . . .	"	23 00

In the warm season we generally hire some farm hands by the day. This year we had four, at \$1.50 per day, without board. They work mostly on improvements of the farm.



## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1887.

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Live stock on hand, . . . . .	\$7,278 00
Produce of farm on hand, . . . . .	9,177 40
Carriages and agricultural implements, . . . . .	3,235 00
Machinery and mechanical fixtures, . . . . .	7,700 00
Beds and bedding in inmates' department, . . . . .	12,600 00
Other furniture in inmates' department, . . . . .	4,900 00
Personal property of State in Superintendent's department,*	9,000 00
Ready-made clothing, . . . . .	3,314 67
Dry goods and miscellaneous, . . . . .	3,314 37
Provisions and groceries, . . . . .	3,196 08
Drugs and medicine, . . . . .	850 00
Fuel, . . . . .	6,073 75
Library, . . . . .	1,000 00
Paints and oils, . . . . .	475 00
<hr/>	
Total, . . . . .	\$72,114 27

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other apartments.

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as Treasurer of the hospital, for the fiscal year ending with the 30th of September, 1887. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursement of money during the year, and the financial condition at its close.

### ASSETS.

Three hundred and sixty-five acres of land,	\$45,000 00
Hospital building, . . . . .	250,000 00
Farm house, \$2,000; brick house, \$2,000, . . . . .	4,000 00
Three dwellings (H. Day lot), . . . . .	1,200 00
Storehouse and shops, . . . . .	16,000 00
Two barns, . . . . .	5,500 00
Horse stable, . . . . .	2,000 00
Scullery and wood-house, . . . . .	700 00
Lumber house, . . . . .	1,100 00
Pump house, . . . . .	1,000 00
Cart shed, . . . . .	500 00
Coal-house, . . . . .	250 00
Piggery, . . . . .	3,000 00
Cattle shed, . . . . .	1,200 00
Fire-proofs for oils and paints, . . . . .	500 00
Two ice houses, . . . . .	600 00
	\$332,550 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' report, . . . . .	\$72,114 27
Reserve fund, . . . . .	10,000 00

## RECEIPTS.

Cash on hand Sept. 30, 1886, . . . . .	\$2,994 21
Received from the State treasurer, . . . . .	22,785 21
from towns, . . . . .	50,797 85
from individuals, . . . . .	18,074 40
from sales, . . . . .	3,647 10
from interest, . . . . .	695 63
	<hr/>
	\$98,994 40

## PAYMENTS.

1st. Salaries and labor, . . . . .	\$28,849 71
2d. Provisions and supplies, viz.:—	
Meats of all kinds, . . . . .	\$6,556 98
Fish of all kinds, . . . . .	1,253 32
Fruit and vegetables, . . . . .	1,373 28
Flour, . . . . .	2,626 25
Grain and meal for table, . . . . .	518 19
Tea, coffee and chocolate, . . . . .	1,003 24
Grain and meal for stock, . . . . .	2,689 59
Sugar and molasses, . . . . .	1,695 19
Butter and cheese, . . . . .	4,948 92
Salt and other groceries, . . . . .	2,136 43
All other provisions, . . . . .	1,043 41
	<hr/>
	25,844 80
3d. Clothing, . . . . .	5,070 69
4th. Fuel and lights, . . . . .	7,546 48
5th. Medicines and medical supplies, . . . . .	1,094 15
6th. Furniture, beds and bedding, . . . . .	3,864 68
7th. Transportation and travelling expenses, . . . . .	358 12
8th. Ordinary construction and repairs, . . . . .	2,156 69
9th. Extraordinary construction and repairs, . . . . .	8,868 56
10th. Miscellaneous expenses, including,—	
1. Real estate, . . . . .	\$1,200 00
2. Farm stock, . . . . .	1,996 05
3. Farm supplies, . . . . .	3,726 88
4. Water, . . . . .	1,172 50
5. Minor expenses, . . . . .	402 99
6. Contingencies, . . . . .	1,359 08
	<hr/>
	9,857 50
	<hr/>
Total expenditures, . . . . .	\$93,511 38

## LIABILITIES.

Salaries and wages due Oct. 1, 1887, . . . . .	\$3,620 71
Miscellaneous bills due, . . . . .	1,882 50
	<hr/>
	\$5,503 21

Due the institution for board Oct. 1, 1887 : —

from State, . . . . .	\$4,793 91
towns, . . . . .	15,342 14
individuals, . . . . .	4,054 03
treasurer, Sept. 30, 1887, . . .	5,483 02
	<hr/>
	\$29,673 10

SUMMARY.

Total receipts, . . . . .	\$98,994 40
Total payments, . . . . .	93,511 38

Cash on hand Sept. 30, 1887, . . . . .	\$5,483 02
----------------------------------------	------------

Total liabilities, . . . . .	\$5,503 21
Total debts due the institution, . . . . .	29,673 10
Total expenditures, including new buildings, . . . . .	93,511 38

Dividing this sum by 478.55, the average number of patients, we have the average expenditure per patient, . . .	\$195 40
And the average weekly expenditure per patient, . . .	3.747

Deducting from the total expenditures, . . . . .	\$98,511 38
The extraordinary expenses, . . . . .	8,868 56

We have the current expenses, . . . . .	\$84,642 82
-----------------------------------------	-------------

Dividing \$84,642 82 by 478.55, the average number of patients, we have the average expenditure per patient, . . .	\$176.877
Making the average weekly expenditure per patient, . . .	3.392

Adding to the current cash expenditure, . . . . .	\$84,642 82
The decrease of personal assets, . . . . .	304.07

We have the <i>necessary</i> cost for the year, . . . . .	\$84,946 89
-----------------------------------------------------------	-------------

Dividing \$84,946 89 by 478.55, the average number of patients, we have, as the annual cost of each patient, . . .	\$177.508
Making the average weekly cost of each patient, . . .	3.40

EDWARD B. NIMS,  
*Treasurer.*

We have examined, as auditors, the accounts of the Treasurer, and found a satisfactory voucher for every entry.

HENRY W. TAFT,  
J. L. OTIS,  
*Auditors.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The report of the Superintendent is respectfully presented for the year 1886-87, giving the history of the operations of the hospital and accompanied by the usual statistical tables.

The important facts and circumstances connected with the movement of population, the general results of treatment, and the changes more or less important which have occurred in the various departments are given in detail. Quiet steady progress and the routine of hospital life do not afford material for highly interesting reports, however valuable and important the results may be. The following table gives the changes in population for the past year : —

## 1. General Statistics, 1886-87.

	Males.	Females.	Total.
Patients in hospital Oct. 1, 1886, . . . . .	244	247	491
Admitted within the year, . . . . .	72	76	148
Whole number of cases within the year, . . . . .	316	323	639
Discharged within the year, . . . . .	92	78	170
Viz.: as recovered, . . . . .	17	10	27
much improved, . . . . .	5	3	8
improved, . . . . .	36	31	67
unimproved, . . . . .	21	16	37
Deaths, . . . . .	13	18	31
Patients remaining Sept. 30, 1887, . . . . .	224	245	469
Viz.: supported as State patients, . . . . .	55	50	105
town patients, . . . . .	135	164	299
private patients, . . . . .	34	31	65
Number of different <i>persons</i> within the year, . . . . .	312	321	633
<i>Persons</i> admitted, . . . . .	72	76	148
recovered, . . . . .	17	10	27
Daily average number of patients, . . . . .	283.27	245.28	478.55

On the 1st of October, 1887, one woman was transferred from State to town charge. Hence the new year will begin with —

State patients, . . . . .	55	49	104
Town patients, . . . . .	135	165	300

The number of patients in the house at the beginning of the year was 491, of whom 244 were men and 247 women; 148 patients were admitted during the year, of whom 72 were men and 76 women.

The whole number of patients under treatment was 639, of whom 316 were men and 323 women.

No person was admitted more than once during the year, hence the number of cases and of persons admitted was the same.

The average daily number in the house was larger than in any preceding year, notwithstanding an unusually large number of transfers to other institutions.

The largest number of patients on any one day was 494, the smallest 459.

The number of re-admissions was 29, which is smaller than usual. Of the admissions 119 were the first, 19 the second, 7 third, 2 fourth and 1 the seventh. The number of first admissions, excluding transfers from other institutions in preceding years, was larger than ever before. This fact may be taken as significant, inasmuch as the admissions are, with one exception, from the four western counties of Massachusetts; 89 of those admitted were of American birth, and 59 of foreign.

Sixty-three patients were suffering from acute disease, 16 were suicidal, 20 were homicidal, 6 were in a bruised or maimed condition when admitted, 10 were epileptic, 4 had paresis, and 5 gave evidence of syphilitic disease; 63 were cases of mania, 31 of melancholia, 28 of dementia. There were also 9 inebriates.

Seventy-one were married, 77 were unmarried.

One hundred and four had been insane over six months, the most curable period of their disease having passed.

Of the 143 patients discharged as not recovered 52 returned to their homes, 12 were taken to almshouses, 9 went out to board in families, 8 were sent out of the State, 2 eloped, 10 were removed to the Worcester Asylum for the Chronic Insane, 10 to the State Farm at Bridgewater, and 11 to the Westborough Lunatic Hospital.

## STATUS OF PATIENTS.

Of the 148 patients admitted 30 were supported by the State, 92 by cities and towns, and 26 by individuals.

Of the 170 patients discharged, including those who died, 63 were supported by the State, 82 by cities and towns, and 25 by individuals.

Of those remaining Sept. 30, 1887, 105 are supported by the State, 299 by towns and cities, and 65 by individuals. The decrease in the number of State charges, and a corresponding increase in the number of those charged to towns and cities, is very noticeable, — the number of those supported by the State being less by 38, at the end of the year, than at the end of 1886, while the number charged to towns and cities is larger by 18. The reason for this change is found largely in the fact that legal settlements are acquired more readily under the laws now than in former years.

The following table is inserted to show the weekly average number in each class for two years past, and the changes in status, as compared with the year previous : —

	1885-86.			1886-87.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . .	80.56	59.67	140.23	70.826	51.961	122.78
Town patients, . .	124.73	145.79	270.52	129.153	160.230	289.38
Private patients, .	32.44	31.17	63.61	33.404	32.596	66.00

## RECOVERIES.

The question of recoveries always comes up for consideration in this report. When we look at the small number reported as recovered, we can readily understand the impression which prevails, and which we occasionally see commented upon, that more patients die in the hospitals than recover. It is not an easy matter to decide when a patient is fully recovered. Under the modern idea of recovery we are limited in the classes to which we can apply that term.

We must exclude that class of patients known as the recurrent cases, who, though they may appear to be perfectly well when discharged, yet from our knowledge of their history and from the insane diathesis which we are sure they have, are tolerably certain to relapse at some future time. We must exclude that class of cases which are congenitally deficient mentally, of whom it may be said when discharged that they are as well as they ever were, or ever will be.

We must often exclude those cases who become insane as a result of disordered habits, of whom we can say when discharged, that if they would live temperate, sober and regular lives they would probably remain well, yet we are almost certain that in time they will reappear in the hospitals. Other classes might be enumerated. The term "improved" does not express fully the work that is done for many who are included under that term. Less than one-half of the patients admitted during the past year could be reasonably regarded as curable.

The number of recoveries reported for the year was 27. No person was discharged as recovered more than once. Of the 119 patients who were admitted for the first time 21 were discharged as recovered; of the second admissions, 5; of the fifth, 1.

The ratio of recoveries to the number admitted was 18.24 per cent.

The ratio of recoveries to the number of discharges was 15.88 per cent.

The ratio of recoveries to the average daily population was 4.22 per cent.

The ratio of recoveries to the number discharged, exclusive of deaths, was 19.42 per cent.

#### DISCHARGE ON PROBATION.

The number of patients discharged under the sixty days law on probation was 48. Forty-four of these were fully discharged at the end of the sixty days, and four returned before the time expired. Of the whole number thus discharged 31 went to their homes, and all but three have remained there until the present time. Eight were boarded out in families by the State Board of Lunacy and Charity



and ten went to almshouses. Continued experience in this form of discharge only confirms the opinion expressed in a former report of its value and efficiency in relieving the Superintendent of responsibility in the discharge of doubtful cases, and as a means of testing the condition of patients by a change of associations and surroundings, previous to a complete discharge.

#### DEATHS.

The number of deaths for the year is an average one. The total was 31. As usual the larger portion died from the effects of chronic diseases. Seven patients died of consumption, five of chronic brain disease, three of general paralysis of the insane, four of apoplexy as the sequel of protracted brain disease, one of cancer, one of epilepsy and one of chronic diarrhœa. Seven persons died of diseases which were more or less acute in character. One man, an epileptic, died of enteritis, which was caused by falling in a convulsion. Two aged people were brought to the hospital under the high excitement of acute mania and soon died of exhaustion: one person died of typhomania, one aged man of erysipelas, one woman who had been for a long time ill died of dysentery, probably as a sequel of other diseases, one feeble man of strangulated hernia, and two persons who were aged 82 and 84 years, of old age, no special disease being apparent in their cases. The review of these cases shows what has often been reiterated in these reports, that the prevailing diseases in hospitals are essentially chronic in their character, and that this fact stands in the way of recovery or improvement in many cases of mental disease. The hospital has been fortunately exempt from suicide for the past two years, nor has any epidemic disease prevailed.

The ratio of deaths to the daily average number of patients was 6.47 per cent. and on the whole number of cases treated 4.85 per cent.

The status of the 31 persons who died was as follows, 9 State patients, 20 town and 2 private.

The following table gives the annual number of deaths, and the ratios to the average and whole number of persons treated in the hospital:—

*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1887.*

OFFICIAL YEAR.	Whole No of Patients.	Daily Aver- age No of Patients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Total.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.4	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47

## WORSHIP AND ENTERTAINMENT.

The assemblies of patients were continued during the year with a variety of exercises, as given in the following table:—

*Exercises in Chapel.*

## 1. ON THE SABBATH,—

Divine worship, . . . . . 52 days.

## 2. ON SECULAR EVENINGS,—

(a) *Readings and Recitations, opened and closed with music:*

The Bible and selections of poetry, . . . 37 days.

The Bible and selections of prose, . . . 2 "

The Bible and selections of poetry and prose, . 13 "

Miscellaneous selections of prose, . . . 74 "

Miscellaneous selections of poetry, . . . 35 "

Miscellaneous selections of poetry and prose, . 65 "

Recitations, . . . . . 2 "

(b) *Other Entertainments :*

Pictures shown with the stereopticon,	. . . . .	7 days.
Concert,	. . . . .	1 "
Ventriloquism,	. . . . .	1 "

(c) *Social Assemblies :*

Quadrille parties,	. . . . .	20 "
No assembly,	. . . . .	56 "
Total,	. . . . .	<hr/> 365 days.

During the months of July, August and September, the assemblies were omitted on Tuesday and Friday evenings, and on the evenings of days in which official visits were made to the hospital. The religious services on the Sabbath were regularly maintained. The average attendance at these services for the year was 288. The largest number on any day was 310; the smallest, 266.

The variety of the exercises in the assemblies was not as large as usual on account of circumstances beyond the control of the present officials, yet the uniformly large attendance, and the frequent commendatory remarks made by persons in attendance, are evidence that the exercises were appreciated, and the effects upon them favorable. It is specially interesting and often gratifying to observe in these exercises the progress and gradual change towards recovery in certain cases, and the improvement in general appearance, self-control and mental condition of very many who may not entirely recover.

There is an abundant reward for all the labor and effort involved.

## FARM.

The cultivation of the farm has been carried on upon a larger scale than ever before, and with good success. The season has been favorable in most respects, and the products generally larger in quantity. The apple crop was smaller, owing to the fact that it was not the bearing year.

There was an increase of thirty-three tons in the hay crop, and a shortage in that of potatoes. The amount of work done by the patients is up to the average. The following table gives the annual amount of hay produced : —

1864, estimated, . . . 40 tons.	1876, weighed, . . . 111 tons.
1865, " . . . 62 "	1877, " . . . 154 "
1866, " . . . 42 "	1878, " . . . 179 "
1867, weighed, . . . 82 "	1879, " . . . 144 "
1868, " . . . 86 "	1880, " . . . 154 "
1869, " . . . 91 "	1881, " . . . 213 "
1870, " . . . 74 "	1882, " . . . 170 "
1871, " . . . 75 "	1883, " . . . 197 "
1872, " . . . 91 "	1884, " . . . 174 "
1873, " . . . 84 "	1885, " . . . 251 "
1874, " . . . 120 "	1886, " . . . 269 "
1875, " . . . 100 "	1887, " . . . 302 "

The large piggery erected last year has proved a success, and is a source of profit to the institution. Fifty-six hogs were slaughtered. The total weight of pork produced was 26,331 pounds, — the largest animal weighing 667 pounds. The following table gives the statistics upon this point : —

*Pork Raised upon the Farm.*

1865, . . . 6,265 pounds.	1877, . . . 13,605 pounds.
1866, . . . 5,443 "	1878, . . . 14,451 "
1867, . . . 7,416 "	1879, . . . 13,569 "
1868, . . . 7,791 "	1880, . . . 14,729 "
1869, . . . 8,469 "	1881, . . . 15,610 "
1870, . . . 7,447 "	1882, . . . 14,414 "
1871, . . . 7,863 "	1883, . . . 15,612 "
1872, . . . 11,366 "	1884, . . . 10,192* "
1873, . . . 10,511 "	1885, . . . 17,544 "
1874, . . . 12,024 "	1886, . . . 21,503 "
1875, . . . 12,693 "	1887, . . . 26,331 "
1876, . . . 12,467 "	

\* Quantity diminished by disease.

Twenty-eight thousand eight hundred and sixty-four gallons of milk were produced, one-third, as usual, being entered in the list of products. The remaining two-thirds are estimated as being charged to the farm in other ways.

One hundred tons of ensilage were stored in the silo, the experience of the previous year having satisfied those who

conduct the farm, of its utility both as a fodder and as a profitable product.

The usual supply of cattle and sheep have been purchased to furnish the tables with beef and mutton during the winter.

*List of Products in 1887.*

Hay (first growth of home farm), 165½ tons, at \$15, . . . . .	\$2,482 50
Hay (south lot), 26½ tons, at \$15, . . . . .	397 50
Hay (Clarke orchard), 21 tons, at \$15, . . . . .	315 00
Hay (after growth of whole farm), 87½ tons, at \$15, . . . . .	1,312 50
Hay (Hungarian grass), 1½ tons, at \$15, . . . . .	22 50
Corn fodder, dry, 26 tons, . . . . .	156 00
Corn, 450 bushels, . . . . .	275 00
Potatoes, 2,343 bushels, . . . . .	1,876 40
Broom seed, 30 bushels, . . . . .	12 00
Broom brush, 700 pounds, . . . . .	42 00
Carrots, 100 bushels, . . . . .	40 00
Sugar beets, 400 bushels, . . . . .	240 00
Beets, 150 bushels, . . . . .	75 00
Onions, 317 bushels, . . . . .	253 60
Turnips, 460 bushels, . . . . .	184 00
Parsnips, 60 bushels, . . . . .	36 00
Beans (Lima), in shell, 191 bushels, . . . . .	191 00
Beans (common), in shell, 57 bushels, . . . . .	57 00
Beans (string), 5 bushels, . . . . .	5 00
Beans (Lima), dry, 2 bushels, . . . . .	6 00
Beans (common), dry, 61½ bushels, . . . . .	61 50
Pease (green), in pod, 144 bushels, . . . . .	289 50
Sweet corn (green), in ear, 286½ bushels, . . . . .	286 50
Tomatoes, 179½ bushels, . . . . .	179 50
Lettuce, 68 bushels, . . . . .	68 00
Cucumbers, 137½ bushels, . . . . .	137 50
Squash (summer), 65½ bushels, . . . . .	65 50
Squash (winter), 2,7½ tons, . . . . .	108 00
Melons, 10,319 pounds, . . . . .	103 19
Asparagus, 27 bushels, . . . . .	81 00
Pie plant, 69 bushels, . . . . .	69 00
Beet greens, 11½ bushels, . . . . .	11 50
Spinach, 69 bushels, . . . . .	69 00
Cabbage, 1,900 heads, . . . . .	114 00
Currants, 7 bushels, . . . . .	20 00
Apples, 401 barrels, . . . . .	601 50
Pears, 50½ bushels, . . . . .	42 38
Quinces, 10½ bushels, . . . . .	21 00
Grapes, 210 pounds, . . . . .	8 40
Veal (raised here), 518 pounds, . . . . .	58 13
Pork, 26,331 pounds, . . . . .	1,816 67

Pigs sold, 278, . . . . .	\$758 00
Pigs (roasting), 7, . . . . .	14 00
Turkeys, 148 pounds, . . . . .	29 70
Chickens, 1,153½ pounds, . . . . .	234 80
Heads and plucks, 5, . . . . .	5 00
Eggs, 777 dozen, . . . . .	184 10
Milk (grass fed), 9,621½ gallons, . . . . .	2,309 12
Cider, 40 barrels, . . . . .	80 00
Calfskins, 6, . . . . .	7 20
Young calves sold, 10, . . . . .	29 50
Wood, 20 cords, . . . . .	60 00
Citron, 410 pounds, . . . . .	4 10
Ensilage, 100 tons, . . . . .	350 00
Peppers, 1 bushel, . . . . .	2 00
	<hr/>
	\$16,258 29

#### EXERCISE.

The spacious grounds about the institution are laid out in walks and driveways and interspersed with grove, meadow and upland, and are much used by patients for walking and exercise.

The portion allotted to the male patients contains about two hundred acres, while that given to female patients is much less.

It is expected that all patients who are able, will go out of doors more or less each day when the weather permits.

#### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report for 1885–86, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board bills of its patients and the small sum of ten dollars each for the funeral expenses of State patients who die in the hospital and whose remains are not removed for burial. The receipts from the last mentioned source during the past year were \$50.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruc-

tion, the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is a compensation fixed by statute law. One hundred and five or more than one-fifth of the inmates now belong to this class. During the past year the weekly average of them was 25.76 per cent. of the whole.

For town patients it has received, and now receives, from the treasuries of the towns respectively in which these patients have legal settlements the same sum per week (\$3.25 each) as from the State treasury for State patients; but the towns clothe their patients and remunerate the hospital for damages done by them. Two hundred and ninety-nine of the inmates are now in this class. The weekly average of them for the year was 60.06 per cent. of the whole.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1887, was \$5.061 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 13 per cent. of the whole.

The average weekly pay per capita charged by the hospital for all its patients, State, town and private, in the course of the year is \$3.521.

Such are the pecuniary resources of the institution. We turn to the results of

#### THE FINANCE OF THE LAST TWENTY-TWO YEARS.

In April, 1865, the hospital was freed from debt; the financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the first of June, 1867, it received a direct bonus from the State of \$5,000 in two appropriations, for specific purposes,—one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus the hospital has purchased and paid for several lots of land, amounting to nearly one hundred and seventy-five acres, together with four dwelling-houses. The total cost of this real estate was \$32,083.92.

The State has then, in this way alone, been overpaid for its bonus in the sum of \$27,083.92.

The amount paid by the hospital for repairs and improvements in the course of the last year is \$11,025.25; in the course of the twenty-two years from Sept. 30, 1865, to Sept. 30, 1887, is \$260,760.78.

The surplus of cash assets now on hand, including the reserve fund, is \$34,169.89, or \$33,867.85 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$15,898.87. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$13,398 87.

The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration let it be called \$8,000.

Collecting these several sums the account of debit of the Commonwealth to the hospital appears to be as follows:—

Excess of cost of land over direct bonus,	. . .	\$27,083 92
Repairs and improvements,	. . . . .	260,760 78
Excess of present cash assets,	. . . . .	33,867 85
Increase of provisions and supplies,	. . . . .	13,398 87
Increase of furniture,	. . . . .	8,000 00
Total,	. . . . .	<u>\$343,111 42</u>

The necessary current repairs of the building may be estimated at \$3,000 annually. Deducting this sum for each of the twenty-two years since Sept. 30, 1865, a total of \$66,000, there is a remainder of \$277,111.42. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely on direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary we have taken into account only the actual disbursements of money by the hospital in contributing to its own improvements.



But aside from this a large amount of work in effecting those improvements was performed by the teams of horses and cattle belonging to the institution and by the regular corps of its employees.

Agreeably to all correct business principles, as well as to the custom at some similar institutions, the hospital should be credited with the amount of the value of this labor. But no credit has ever been given for it. Many thousands of dollars might, in this direction, be justly added to the sum above mentioned, as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition it may be interesting to know to what extent the taxpayers of the State have contributed to the institution. From a list furnished by the State treasurer of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection down to the present day, it has cost the people of the Commonwealth only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).

#### EMPLOYMENT.

The proportion of patients which are employed in various occupations has always been large. The number of days' work, of which a regular account was kept, as done in the laundry, kitchen, sewing-room, and on the farm in the past year was 27,477.

No account is made of the large amount of work which was done in the various minor duties about the institution, such as assisting in the daily household work, or of work done by patients for themselves. It is estimated that fully 75 per cent. of the patients in the hospital are occupied a portion of the time in various kinds of labor.

To many who are excited it affords an object on which to expend their energies, gives the needed exercise and prepares the way for regular rest and sleep, and improved alimentation. Many who are depressed are helped to forget their troubles and in others who are sinking into dementia a more healthy mental action is induced.

These often relearn what they once knew, or regain the knowledge and faculties which are partially lost after a long-continued mental alienation.

#### ACKNOWLEDGMENTS.

The hospital is under obligations to various people for favors granted during the year. To Professor Pray, who entertained very acceptably by an exhibition of sleight-of-hand and jugglery, and to Mr. H. Bryant for a performance in ventriloquism; to the Opera House orchestra for a concert; to Dr. T.W. Meekins for several exhibitions of stereoscopic views; to Miss Florence Austin for a quantity of reading matter; to Mr. S. E. Bridgman for magazines, etc., and Mrs. S. M. Butler for the same; also to several persons who are unknown for papers and magazines; to several persons for Christmas gifts; to the publishers of the "Christian Register" and "Staaten Zeitung," for those papers through the year.

#### CONCLUSION.

The year which has passed has brought but few changes. Ida D. Hyde resigned her position as laundress to accept another position in the hospital; Nettie Lyman was appointed to fill the vacancy. Gertrude C. Arnold resigned the position of seamstress to accept that of assistant clerk; Susan A. Miller was appointed to the vacancy. Two attendants and one employee were discharged for insubordination and neglect of duty. Changes in the corps of attendants are not desirable, coming as they generally do to the hospital without any special preparation for their work, or acquaintance with it. The efficiency of the hospital depends very much upon the faithfulness of those who are brought into immediate contact with the patients. For those who remain associated with me upon the medical staff, and others who are in charge of the various departments of work, I have only words of commendation for their faithfulness in duty, and loyalty to the best interests of the institution.

EDWARD B. NIMS.



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# APPENDIX.

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*\*2. Monthly Admissions, Discharges and Averages.*

MONTHS.	ADMISSIONS.			DISCHARGES (Including Deaths).			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1886.</b>									
October, . . .	5	7	12	5	4	9	243.55	248.68	492.23
November, . . .	3	10	13	12	9	21	239.1	251.27	490.37
December, . . .	5	7	12	7	13	20	235.93	350.42	486.35
<b>1887.</b>									
January, . . .	3	5	8	4	8	12	232.17	243.55	476.26
February, . . .	9	1	10	4	4	8	235.4	239.7	475.1
March, . . .	4	4	8	3	2	5	238.51	239.03	477.54
April, . . .	4	7	11	4	2	6	237.8	243.1	480.9
May, . . .	6	8	14	6	7	13	239.8	245.9	485.7
June, . . .	11	7	18	18	4	22	232.	248.5	480.5
July, . . .	4	5	9	17	13	30	225.23	244.90	470.13
August, . . .	8	9	17	7	7	14	217.58	243.87	461.45
September, . . .	10	6	16	5	5	10	221.63	244.50	466.13
Total of cases, . . .	72	76	148	92	78	170	-	-	-
Total of persons, . . .	72	76	148	90	78	168	-	-	-
Daily average for the year, . . .	-	-	-	-	-	-	233.27	245.28†*	478.55

\* For Table No. 1 see the beginning of the Superintendent's report.

† These totals are obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

*3. Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	58	61	119	-	-	-
Second, . . . . .	7	12	19	3	4	7
Third, . . . . .	5	2	7	4	3	7
Fourth, . . . . .	1	1	2	-	-	-
Seventh, . . . . .	1	-	1	2	-	2
Total of cases, . . . . .	72	76	148	9	7	16
Total of persons, . . . . .	72	76	148	5	6	11

## 4. Age of persons Admitted for the First Time.

A G E S.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Fifteen years and less, . . . . .	3	—	3	1	—	1
From 15 to 20 years, . . . . .	5	2	7	—	2	2
20 to 25 years, . . . . .	11	5	16	15	1	16
25 to 30 years, . . . . .	2	10	12	5	10	15
30 to 35 years, . . . . .	2	2	4	5	8	13
35 to 40 years, . . . . .	7	3	10	7	2	9
40 to 50 years, . . . . .	11	16	27	8	17	25
50 to 60 years, . . . . .	8	10	18	11	15	26
60 to 70 years, . . . . .	2	3	5	5	6	11
70 to 80 years, . . . . .	—	—	—	—	—	—
Over 80 years, . . . . .	1	—	1	1	—	1
Unknown, . . . . .	6	10	16	—	—	—
Total of persons, . . . . .	58	61	119	58	61	119

## 5. Parentage of Persons Admitted.

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	1	1	—	—	1	1
New Hampshire, . . . . .	2	2	1	1	3	3
Vermont, . . . . .	2	—	2	1	4	1
Massachusetts, . . . . .	18	16	17	18	35	34
Rhode Island, . . . . .	—	1	—	—	—	1
Connecticut, . . . . .	2	1	—	1	2	2
New York, . . . . .	5	7	2	2	7	9
Pennsylvania, . . . . .	1	2	1	—	2	2
Ohio, . . . . .	—	—	—	1	—	1
Michigan, . . . . .	1	—	—	—	1	—
Illinois, . . . . .	—	1	—	—	—	1
Kentucky, . . . . .	—	—	—	1	—	1
Virginia, . . . . .	2	1	—	—	2	1
Maryland, . . . . .	—	—	—	1	—	1
Canada, . . . . .	5	5	4	5	9	10
England, . . . . .	1	2	1	—	2	2
Ireland, . . . . .	21	22	40	38	61	60
Scotland, . . . . .	1	1	—	—	1	1
Germany, . . . . .	2	2	1	1	3	3
Unknown, . . . . .	8	8	7	6	15	14
Total of persons, . . . . .	72	72	76	76	148	148

6. *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	14	14	28
Hampden County, . . . . .	31	38	69
Berkshire County, . . . . .	15	21	36
Franklin County, . . . . .	11	3	14
Middlesex County, . . . . .	1	—	1
Total of <i>persons</i> , . . . . .	72	76	148
Cities and large towns, . . . . .	37	48	85
Country districts, . . . . .	35	28	63
Total of <i>persons</i> , . . . . .	72	76	148

7. *Civil Condition of Persons Admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	28	17	44	27	29	56	3	14	17	—	1	1
Second, . . . . .	3	1	4	4	8	12	—	2	2	—	1	1
Third, . . . . .	5	1	6	—	1	1	—	—	—	—	—	—
Fourth, . . . . .	—	1	1	1	—	1	—	—	—	—	—	—
Fifth, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Sixth, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Seventh, . . . . .	—	—	—	1	—	1	—	—	—	—	—	—
Total of <i>per- sons</i> , . . . . .	36	20	56	33	38	71	3	16	19	—	2	2



## 8. Occupations of Persons Admitted.

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
Broker, . . . . .	1	Blacksmith's wife, . . . . .	1
Cabinet maker, . . . . .	1	Carpenter's wife, . . . . .	2
Clerk, . . . . .	4	Carpenter's daughter, . . . . .	1
Commercial traveller, . . . . .	1	Clerk, . . . . .	1
Druggist, . . . . .	1	Cloak maker, . . . . .	1
Editor, . . . . .	1	Domestic, . . . . .	3
Farmer, . . . . .	13	Druggist's wife, . . . . .	1
Fire adjuster, . . . . .	1	Electric physician, . . . . .	1
Florist, . . . . .	1	Farmer's wife, . . . . .	3
Laborer, . . . . .	18	Housekeeper, . . . . .	7
Mechanic, . . . . .	2	Laborer's wife, . . . . .	9
Merchant, . . . . .	2	Miner's wife, . . . . .	1
Mill operative, . . . . .	1	Mill operative, . . . . .	6
None, . . . . .	3	Mill-operative's wife, . . . . .	2
Plumber, . . . . .	1	Merchant's wife, . . . . .	3
Paper manufacturer, . . . . .	2	Machinist's wife, . . . . .	1
Painter, . . . . .	1	Nurse, . . . . .	1
Steel polisher, . . . . .	1	None, . . . . .	10
Shoe maker, . . . . .	1	Paper-maker's wife, . . . . .	1
Student, . . . . .	1	Paper finisher, . . . . .	1
Saloon keeper, . . . . .	3	Shoe-maker's wife, . . . . .	2
Tin smith, . . . . .	2	School teacher, . . . . .	1
Tea peddler, . . . . .	1	Tailor's wife, . . . . .	2
Tailor, . . . . .	1	Truckman's wife, . . . . .	2
Unknown, . . . . .	1	Tailoress, . . . . .	1
Weaver, . . . . .	3	Thread-maker's wife, . . . . .	1
Wire maker, . . . . .	2	Wire-maker's wife, . . . . .	1
Whip maker, . . . . .	1		
Wool sorter, . . . . .	1		
		Total of persons, . . . . .	76
Total of persons, . . . . .	72		

9. *Reported Duration of Insanity before last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER AD- MISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	1	1	2	—	—	—	—	—	—
Under 1 month, . . . . .	6	11	17	3	2	5	10	13	23
From 1 to 3 months, . . . . .	9	8	17	1	—	1	10	8	18
3 to 6 months, . . . . .	4	6	10	1	3	4	5	9	14
6 to 12 months, . . . . .	5	7	12	1	1	2	6	8	14
1 to 2 years, . . . . .	12	10	22	—	1	1	12	11	23
2 to 5 years, . . . . .	6	4	10	2	2	4	8	6	14
5 to 10 years, . . . . .	2	3	5	—	4	4	2	8	10
10 to 20 years, . . . . .	2	—	2	1	1	2	3	1	4
Over 20 years, . . . . .	—	—	—	1	—	1	1	—	1
Unknown, . . . . .	11	11	22	4	1	5	15	12	27
Total of cases, . . . . .	58	61	119	14	15	29	72	76	148
Total of persons, . . . . .	58	61	119	14	15	29	72	76	148
Average of known cases, . . . . .	2 $\frac{1}{4}$	1 $\frac{1}{2}$	1 $\frac{3}{4}$	4 $\frac{1}{2}$	4 $\frac{1}{3}$	4 $\frac{2}{3}$	2 $\frac{1}{2}$	1 $\frac{1}{2}$	2 $\frac{1}{4}$

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated.

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Totals.
Epilepsy acquired, . . . . .	7	3	10
General paralysis of the insane, . . . . .	4	—	4
Mania, acute, . . . . .	15	21	36
chronic, . . . . .	1	14	15
recurrent, . . . . .	1	6	7
a potu, . . . . .	2	1	3
puerperal, . . . . .	—	1	1
senile, . . . . .	1	—	1
Melancholia, acute, . . . . .	8	11	19
chronic, . . . . .	6	—	6
recurrent, . . . . .	4	1	5
puerperal, . . . . .	—	1	1
Dementia, primary, . . . . .	10	9	19
secondary, . . . . .	5	1	6
senile, . . . . .	1	2	3
Dipsomania, . . . . .	1	2	3
Inebriate, . . . . .	6	3	9
Total of cases, . . . . .	72	76	148
Total of persons, . . . . .	72	76	148

11. *Probable Causes of Insanity in Persons Admitted.*

CAUSES.	Males.	Females.	Totals.
<i>Physical.</i>			
Ill-health, . . . . .	5	8	13
Epilepsy, . . . . .	4	3	7
Intemperance, . . . . .	7	6	13
Overwork, . . . . .	2	2	4
Overwork and ill-health, . . . . .	—	2	2
Change of life, . . . . .	—	2	2
Change of life and ill-health, . . . . .	—	1	1
Change of life and intemperance, . . . . .	—	1	1
Loss of friends and ill-health, . . . . .	—	2	2
Hereditary, . . . . .	2	5	7
Masturbation, . . . . .	1	—	1
Injury of head, . . . . .	—	2	2
Old age, . . . . .	1	1	2
Overwork and study, . . . . .	1	—	1
Puerperal, . . . . .	—	2	2
Injured by fall, . . . . .	5	—	5
Nervous exhaustion, . . . . .	2	—	2
Sunstroke, . . . . .	3	—	3
Over-excitement, . . . . .	1	—	1
Congenital, . . . . .	—	1	1
<i>Mental.</i>			
Business trouble and intemperance, . . . . .	2	—	2
Loss of friends, . . . . .	—	3	3
Mental shock, . . . . .	—	1	1
Religious excitement, . . . . .	1	3	4
Total of mental, . . . . .	3	7	10
Total of physical, . . . . .	34	38	72
Unknown, . . . . .	35	31	66
Total of <i>persons</i> , . . . . .	72	76	148

*12. Relation to Hospital of Persons Admitted.*

HOSPITAL RELATIONS.	Males.	Females	Totals.
Never before in any hospital, . . . .	57	59	116
Former inmates of this hospital, . . . .	14	14	28
Former inmates of other hospitals in this State, . . . . .	—	1	1
Former inmates of hospitals in other States,	1	1	2
Former inmates of this hospital and of hospitals in other States, . . . . .	—	—	—
Former inmates of other hospitals in this State and of hospitals in other States, .	—	—	—
Former inmates of foreign hospitals, . .	—	1	1
Former inmates of this hospital and of foreign hospitals, . . . . .	—	—	—
Former inmates of hospitals in Montreal, .	—	—	—
Total of <i>persons</i> , . . . . .	72	76	148

## 13. Discharges Classified by Admission and Result.

ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	15	6	21	4	2	6	26	26	52	19	16	35	10	15	25	71	65	139
Second, . . . . .	2	3	5	-	1	1	5	3	8	2	-	2	3	2	5	12	9	21
Third, . . . . .	-	-	-	-	-	-	1	2	3	-	-	-	-	1	1	1	3	4
Fourth, . . . . .	-	-	-	-	-	-	2	-	2	-	-	-	-	-	-	2	-	2
Fifth, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
Sixth, . . . . .	-	-	-	1	-	1	1	-	1	-	-	-	-	-	-	2	-	2
Seventh, . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Total of cases, . . . . .	17	10	27	5	3	8	36	31	67	21	16	37	13	18	31	92	78	170
Total of persons, . . . . .	17	10	27	4	3	7	35	31	66	21	16	37	13	18	31	90	78	168

14. *How Supported.*

SUPPORTED AS	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . . .	17	13	30	70.826	51.961	122.78
Town patients, . . .	40	52	92	129.153	160.230	289.38
Private patients, . . .	15	11	26	33.404	32.596	66.00
Total of cases, . . .	72	76	148	233.383	244.787	478.16 *

\* This weekly average is .39 less than the daily average 478.55.

15. *Cases Discharged Recovered — Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . .	6	3	9	5	3	8	—	—	—
From 1 to 3 months, . . .	2	1	3	7	1	8	5	1	6
3 to 6 months, . . .	—	—	—	3	4	7	—	3	3
6 to 12 months, . . .	1	—	1	2	2	4	5	1	6
1 to 2 years, . . .	1	2	3	—	—	—	—	—	—
2 to 5 years, . . .	2	1	3	—	—	—	2	2	4
5 to 10 years, . . .	—	—	—	—	—	—	—	—	—
10 to 20 years, . . .	—	—	—	—	—	—	—	—	—
Over 20 years, . . .	—	—	—	—	—	—	—	—	—
Unknown, . . .	5	3	8	—	—	—	5	3	8
Total of cases, . . .	17	10	27	17	10	27	17	10	27
Total of persons, . . .	17	10	27	17	10	27	17	10	27
Average of known cases (in months), . . .	7 $\frac{4}{12}$	9 $\frac{4}{12}$	8 $\frac{4}{12}$	3 $\frac{7}{17}$	2 $\frac{1}{2}$	3 $\frac{1}{2}$	15 $\frac{1}{2}$	15 $\frac{1}{4}$	12 $\frac{4}{16}$

## 16. Cases Resulting in Death — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	2	2	4	2	2	4	—	1	1
From 1 to 3 months, . . . . .	1	—	1	1	1	2	1	1	2
3 to 6 months, . . . . .	—	1	1	—	2	2	—	—	—
6 to 12 months, . . . . .	2	3	5	—	4	4	—	1	1
1 to 2 years, . . . . .	2	1	3	2	4	6	—	2	2
2 to 5 years, . . . . .	—	6	6	5	3	8	1	2	3
5 to 10 years, . . . . .	1	2	3	—	1	1	4	6	10
10 to 20 years, . . . . .	2	1	3	1	1	2	2	3	5
Over 20 years, . . . . .	—	1	1	2	—	2	2	1	3
Unknown, . . . . .	3	1	4	—	—	—	3	1	4
Totals, . . . . .	13	18	31	13	18	31	13	18	31
Average of known cases (in months), . . . . .	49 $\frac{3}{17}$	39 $\frac{13}{17}$	43 $\frac{1}{17}$	68 $\frac{4}{17}$	31 $\frac{1}{17}$	46 $\frac{5}{17}$	106 $\frac{1}{17}$	101 $\frac{9}{17}$	103 $\frac{1}{17}$

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Epilepsy, . . . . .	—	—	—	1	1	2
Paralysis of the insane, . . . . .	—	—	—	1	2	3
Mania, . . . . .	—	—	—	5	3	8
acute, . . . . .	11	—	11	1	2	3
chronic, . . . . .	—	—	—	—	2	2
recurrent, . . . . .	—	1	1	—	—	—
a potu, . . . . .	1	1	2	—	—	—
puerperal, . . . . .	—	1	1	—	—	—
Melancholia, acute, . . . . .	1	1	2	1	1	2
Dementia, . . . . .	2	2	4	3	4	7
primary, . . . . .	—	—	—	1	3	4
Dipsomania, . . . . .	—	1	1	—	—	—
Inebriate, . . . . .	2	3	5	—	—	—
Totals, . . . . .	17	10	27	13	18	31

*18. Causes of Death.*

CAUSES.	Males.	Females.	Totals.
<b>Nervous system, —</b>			
Organic disease of the brain, . . .	2	3	5
Exhaustion of acute mania, . . .	1	1	2
Typhomania, . . . . .	—	1	1
General paralysis of the insane, . . .	1	2	3
Apoplexy, . . . . .	1	—	1
Paresis, . . . . .	2	1	3
Epilepsy, . . . . .	—	1	1
<b>Respiratory, —</b>			
Phthisis, . . . . .	2	5	7
<b>Zymotic, —</b>			
Erysipelas, . . . . .	1	—	1
<b>General, —</b>			
Strangulated Hernia, . . . . .	1	—	1
Enteritis, . . . . .	1	—	1
Cancer, . . . . .	1	—	1
Dysentery, . . . . .	—	1	1
Chronic diarrhœa, . . . . .	—	1	1
<b>Old age, . . . . .</b>	—	2	2
<b>Totals, . . . . .</b>	<b>13</b>	<b>18</b>	<b>31</b>



## 19. Deaths, Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.
	Females.			Females.			Females.			Females.			Females.		
Second, . . . .	1	-	1	1	-	1	1	1	2	-	1	1	3	3	6
Third, . . . .	-	-	-	-	-	-	-	1	1	-	-	-	-	1	1
Totals, . . . .	1	-	1	1	-	1	1	2	3	-	1	1	3	4	7

## 20. Recoveries, Classified by Results of Previous Admissions.\*

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.
	Females.			Females.			Females.			Females.			Females.		
Second, . . . .	2	3	5	-	-	-	-	-	-	-	-	-	2	3	5
Fifth, . . . .	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Totals, . . . .	2	4	6	-	-	-	-	-	-	-	-	-	2	4	6

\* In all cases of more than one admission the classification is based upon the result of the admission next preceding the last, in each case respectively.

21. *Deaths, Classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY. "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Under 1 month, . . . . .	—	2	2	2	2	4
From 1 to 3 months, . . . . .	—	—	—	1	1	2
3 to 6 months, . . . . .	1	1	2	—	1	1
6 to 12 months, . . . . .	—	1	1	—	3	3
1 to 2 years, . . . . .	3	—	3	2	3	5
2 to 5 years, . . . . .	3	3	6	4	4	8
5 to 10 years, . . . . .	—	5	5	—	1	1
10 to 20 years, . . . . .	1	5	6	1	3	4
Over 20 years, . . . . .	2	—	2	3	—	3
Unknown, . . . . .	3	1	4	—	—	—
Totals, . . . . .	13	18	31	13	18	31
Average of known cases (in months), . . . . .	106 $\frac{2}{3}$	110 $\frac{4}{7}$	105 $\frac{1}{2}$	67 $\frac{1}{3}$	39 $\frac{2}{3}$	51 $\frac{1}{4}$

22. *Ages of those who Died.*

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteen years and less, . . . . .	—	—	—	—	—	—
From 15 to 20 years, . . . . .	1	1	2	—	—	—
20 to 25 years, . . . . .	1	1	2	1	1	2
25 to 30 years, . . . . .	—	—	—	1	1	2
30 to 35 years, . . . . .	1	2	3	—	1	1
35 to 40 years, . . . . .	1	2	3	2	1	3
40 to 50 years, . . . . .	5	5	10	3	6	9
50 to 60 years, . . . . .	1	4	5	1	5	6
60 to 70 years, . . . . .	—	1	1	2	1	3
70 to 80 years, . . . . .	1	2	3	—	—	—
Over 80 years, . . . . .	1	—	1	2	2	4
Unknown, . . . . .	1	—	1	1	—	1
Totals, . . . . .	13	18	31	13	18	31

23. *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1887.*

YEARS.	ADMITTED.			NEW CASES (FIRST ADMISSION).											
				RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, 2 months, .	99	129	228												
1858-59, .	42	46	88												
1859-60, .	66	91	157												
1860-61, .	58	46	104												
1861-62, .	51	43	94												
1862-63, .	56	57	113							1	1	2			
1863-64, .	35	30	65												
1864-65, .	54	55	109												
1865-66, .	66	52	118												
1866-67, .	42	69	111												
1867-68, .	54	71	125												
1868-69, .	72	64	136							1	1	2			
1869-70, .	80	103	183										2		
1870-71, .	93	88	181							1		1	1		
1871-72, .	83	85	168												
1872-73, .	89	69	158												
1872-78, .															



23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1887 — Concluded.

YEARS	RE-ADMITTED CASES.										REMAINING OF EACH YEAR'S ADMISSIONS, SEPT. 30, 1887.					
	ADMITTED.			DISCHARGED AND DIED IN 1886-87.												
	Males.	Females.	Totals.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.				DIED.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	
1858, 2 months, .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10
1858-59, .	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	2
1859-60, .	7	3	10	—	—	—	—	—	—	—	—	—	—	—	—	4
1860-61, .	13	7	20	—	—	—	—	—	—	—	—	—	—	—	—	3
1861-62, .	13	5	18	—	—	—	—	—	—	—	—	—	—	—	—	1
1862-63, .	14	11	25	—	—	—	—	—	—	—	—	—	—	—	—	2
1863-64, .	12	15	27	—	—	—	—	—	—	—	—	—	—	—	—	3
1864-65, .	16	9	25	—	—	—	—	—	—	—	—	—	—	—	—	2
1865-66, .	9	9	18	—	—	—	—	—	—	—	—	—	—	—	—	3
1866-67, .	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—	5
1867-68, .	14	13	27	—	—	—	—	—	—	—	—	—	—	—	—	2
1868-69, .	12	21	33	—	—	—	—	—	—	—	—	—	—	—	—	4
1869-70, .	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—	8
1870-71, .	16	14	30	—	—	—	—	—	—	—	—	—	—	—	—	4
1871-72, .	18	13	31	—	—	—	—	—	—	—	—	—	—	—	—	7
1872-73, .	13	10	23	—	—	—	—	—	—	—	—	—	—	—	—	11
				—	—	—	—	—	—	—	—	—	—	—	—	5
				—	—	—	—	—	—	—	—	—	—	—	—	10

[illegible]







25. *Operations of the Hospital, from the beginning, in each Year.*

		1858.	1859-60.	1860-61.	1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	
ADMITTED	Males, .	99	45	73	70	64	69	48	70	75	61	84	90	109	101	102	105	75	76	68	40	63	59	57	62	78	61	66	85	72	
	Females, .	129	48	94	52	48	68	45	64	61	77	84	85	112	98	79	88	78	77	71	36	43	58	66	62	69	75	70	98	76	
	Totals, .	228	93	167	122	112	137	93	134	136	138	152	169	202	211	199	191	183	153	153	139	76	106	117	123	124	147	136	156	183	148
Recovered.	Males, .	-	18	-	-	19	-	30	17	15	22	19	31	23	16	25	19	25	16	19	15	7	13	16	7	13	11	9	17	10	16
	Females, .	-	15	-	-	15	-	18	16	9	19	17	18	27	27	15	29	12	13	13	18	19	13	12	13	15	17	16	12	19	8
	Totals, .	-	33	33	35	34	28	48	33	24	41	36	49	50	43	40	48	37	29	32	33	26	28	20	28	28	25	29	29	24	24
Much Improved.	Males, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6	4	9	6	4	8	5	
	Females, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	9	-	11	5	2	3	
	Totals, .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	13	13	9	17	9	10	8	
Improved.	Males, .	4	9	-	-	25	-	20	14	13	18	20	23	15	23	37	24	21	18	8	17	15	11	15	7	18	16	12	23	36	
	Females, .	-	9	-	-	15	-	18	13	7	15	28	28	43	41	27	22	19	24	31	13	27	13	12	14	15	19	17	36	31	
	Totals, .	4	18	18	26	40	25	38	27	20	33	48	51	58	64	60	59	43	45	49	21	44	28	23	30	21	33	35	29	59	67
Unimproved.	Males, .	2	6	-	-	9	-	4	8	5	5	9	20	22	31	22	23	27	17	24	15	16	11	9	6	14	21	16	10	20	21
	Females, .	2	4	-	-	4	-	5	7	3	4	8	43	34	30	27	29	18	21	23	17	13	3	10	10	13	14	20	16	23	16
	Totals, .	4	10	4	10	13	7	9	15	8	9	17	63	56	61	49	52	45	38	47	32	29	14	19	16	27	35	36	26	43	37

DISCHARGED.



26. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . . .	225.10	48.16	69.83	343.24
1865-66, . . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . . .	261.96	49.46	89.75	401.17
1867-68, . . . . .	262.65	47.92	103.06	413.63
1868-69, . . . . .	248.52	54.98	101.46	404.96
1869-70, . . . . .	236.19	65.04	107.23	408.46
1870-71, . . . . .	234.10	77.07	118.38	429.55
1871-72, . . . . .	226.96	89.57	112.27	428.80
1872-73, . . . . .	248.02	99.23	90.00	437.25
1873-74, . . . . .	284.48	102.88	82.06	469.42
1874-75, . . . . .	274.35	128.34	72.46	475.15
1875-76, . . . . .	259.19	146.02	68.94	474.15
1876-77, . . . . .	254.84	161.58	60.02	476.44
1877-78, . . . . .	211.90	175.71	54.75	442.36
1878-79, . . . . .	200.34	182.29	54.23	436.86
1879-80, . . . . .	197.03	198.01	55.46	450.50
1880-81, . . . . .	180.82	214.15	57.19	452.15
1881-82, . . . . .	166.84	238.25	56.52	461.61
1882-83, . . . . .	161.62	247.63	57.58	466.83
1883-84, . . . . .	155.10	251.23	56.06	462.39
1884-85, . . . . .	154.44	261.58	59.82	475.84
1885-86, . . . . .	140.23	270.52	63.61	474.36
1886-87, . . . . .	122.78	289.38	66.00	478.16

27. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1884.</b>		
October, . . . . .	38,400	1,238.71
November, . . . . .	47,200	1,573.33
December, . . . . .	55,950	1,804.84
<b>1887.</b>		
January, . . . . .	55,250	1,782.26
February, . . . . .	43,600	1,557.14
March, . . . . .	38,800	1,251.61
April, . . . . .	31,150	1,038.33
May, . . . . .	21,450	691.93
June, . . . . .	18,300	848.38
July, . . . . .	19,050	614.51
August, . . . . .	22,850	737.09
September, . . . . .	31,850	1,061.66
Totals, . . . . .	423,850	14,199.79

## 28. Supplies for the Several Departments for the Year 1886-87.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtilins.	Wash-bowls.	Ewers.	Chamberers.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Saucers.	Tumbler.	Mugs.	Bowls.	Pitchers.	Syrup-Cups.	Knives.	Forks.	Lanterns.	Belsonrs.
<i>Men's Department.</i>																											
Upper 1st Hall, . . .	8	28	4	7	2	-	22	12	-	-	3	2	-	-	8	6	24	24	24	42	-	2	1	-	-	-	
2d Hall, . . .	36	30	6	10	-	-	18	-	-	1	15	-	2	2	6	12	6	30	24	24	-	4	4	1	-	-	
3d and 4th Halls, . . .	66	46	-	-	-	-	18	-	-	1	29	-	2	3	3	24	24	24	30	24	24	-	1	1	-	-	
Middle 1st Hall, . . .	8	18	-	12	5	24	4	2	-	2	6	-	1	2	2	14	2	4	2	2	18	4	1	-	-	-	
2d Hall, . . .	27	24	6	6	4	12	12	-	-	1	14	-	1	4	1	24	2	24	4	3	36	8	-	-	-	-	
3d and 4th Halls, . . .	18	18	-	6	-	1	12	-	-	1	10	-	2	6	-	-	-	13	-	-	-	2	-	-	-	-	
Lower 1st Hall, . . .	24	24	-	-	1	-	6	-	-	-	37	-	2	1	-	1	-	-	-	-	-	2	-	-	-	-	
2d Hall, . . .	38	12	6	16	-	-	6	-	-	-	18	-	4	-	-	-	2	-	-	-	-	2	-	-	-	-	
3d and 4th Halls, . . .	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>Women's Department.</i>																											
Upper 1st Hall, . . .	12	-	2	-	1	22	12	4	2	1	6	-	-	-	-	6	12	30	-	6	-	3	1	-	-	-	
2d Hall, . . .	36	24	6	7	2	-	36	18	2	6	12	-	-	14	2	36	12	30	18	42	18	3	-	4	-	-	
3d Hall, . . .	52	36	8	12	3	-	30	4	-	6	6	6	-	10	4	6	6	30	24	24	12	6	-	-	-	-	
4th Hall, . . .	52	32	-	6	3	-	12	5	1	1	18	-	-	16	4	18	30	30	24	24	6	1	-	-	-	-	
Middle 1st Hall, . . .	24	28	8	4	2	5	42	-	1	1	12	-	-	8	8	60	12	6	12	18	6	1	1	-	-	-	
2d Hall, . . .	42	72	12	24	2	5	24	-	-	-	48	1	-	52	8	24	12	24	12	12	48	30	1	-	-	-	
3d Hall, . . .	40	36	16	14	2	5	54	2	-	-	24	-	-	18	2	24	12	12	12	18	18	1	-	-	-	-	
4th Hall, . . .	24	-	6	-	2	-	30	7	-	-	6	-	-	18	2	18	12	12	12	12	18	1	1	-	-	-	
Lower 1st Hall, . . .	60	40	-	12	2	10	18	7	1	1	27	-	-	22	-	18	24	24	36	36	6	3	1	-	-	-	
2d Hall, . . .	64	30	-	36	2	-	36	8	1	-	18	-	-	16	-	12	6	6	-	-	6	2	-	-	-	-	
3d Hall, . . .	48	24	-	18	-	-	48	4	-	-	42	-	-	23	-	12	6	-	-	-	-	1	-	-	-	-	
4th Hall, . . .	4	16	-	-	-	6	12	-	-	-	-	-	-	4	-	-	-	12	6	-	-	1	-	-	-	-	
Kitchen, . . .	-	-	-	-	-	32	10	-	-	-	-	-	-	4	3	240	24	48	86	1	-	2	-	-	-	-	
Rear, . . .	-	3	-	-	-	-	22	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
Centre, . . .	14	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Aggregate, . . .	731	541	86	191	25	112	496	84	7	16	364	9	11	225	43	512	214	382	281	157	132	38	5	85	34	4	
																										7	

## 28. Supplies for the Several Departments for the Year 1886-87 — Concluded.

	Clothes-bags.	Spoons.	Glass Castors.	Table-spreads.	Mapkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Kollers.	Wash basins.	Rooms.	Soap, pounds.	Whisks.	Dust-brushes.	Scrub-brushes.	Dust-pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe-brushes.	Spools Thread.	Papers Needles.	Papers Pins.	Rubber Numbers.
<i>Men's Department.</i>																										
Upper 1st Hall, . . .	1	18	1	2	6	-	-	-	12	12	-	-	12	40	4	3	1	-	6	-	1	11	1	-	-	1
2d Hall, . . .	1	1	-	1	6	-	4	7	12	12	-	16	48	1	1	1	-	1	6	3	2	9	1	-	-	2
3d and 4th Halls, . .	1	30	-	-	-	-	12	-	12	12	1	14	86	3	1	1	-	6	9	8	2	10	1	-	-	4
Middle 1st Hall, . . .	-	12	4	-	-	-	-	2	12	6	-	24	60	2	2	4	2	4	4	4	-	18	2	-	-	6
2d Hall, . . .	-	12	3	-	-	-	-	-	12	6	-	31	70	2	1	1	-	4	5	5	2	16	1	-	-	-
3d and 4th Halls, . .	-	12	1	-	-	-	-	-	6	12	1	9	20	1	2	-	-	2	5	-	3	5	2	-	-	-
Lower 1st Hall, . . .	-	-	2	-	-	-	-	-	6	12	2	38	94	1	1	-	-	2	1	-	1	18	2	-	-	-
2d Hall, . . .	-	-	-	-	-	-	-	-	-	18	-	14	116	-	-	1	-	4	5	-	1	19	-	-	-	-
3d and 4th Halls, . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Women's Department.</i>																										
Upper 1st Hall, . . .	1	-	2	2	12	-	-	-	18	-	-	8	26	1	1	1	1	1	3	4	-	-	-	2	3	6
2d Hall, . . .	4	12	4	2	-	-	36	-	6	-	1	23	54	2	3	1	-	1	3	4	-	-	-	10	2	11
3d Hall, . . .	-	-	-	1	-	-	12	12	-	-	-	13	42	1	1	-	-	2	2	2	-	-	-	14	2	10
4th Hall, . . .	-	-	-	5	-	-	12	12	-	-	-	8	40	-	4	-	1	5	2	2	1	-	-	10	6	10
Middle 1st Hall, . . .	-	-	-	-	-	-	-	12	-	-	-	29	88	-	4	2	-	5	2	2	-	-	28	5	17	6
2d Hall, . . .	-	-	8	-	-	-	6	18	18	-	-	16	84	1	1	-	-	7	1	1	-	-	23	4	12	-
3d Hall, . . .	-	-	-	1	-	-	12	24	6	-	1	13	46	1	2	-	-	3	3	1	-	-	9	3	9	-
4th Hall, . . .	2	12	-	1	-	-	-	36	-	-	-	16	62	1	1	-	1	2	3	1	-	-	17	2	4	3
Lower 1st Hall, . . .	-	-	1	-	-	-	12	24	24	-	-	12	98	1	1	-	1	4	5	-	-	-	10	7	30	6
2d Hall, . . .	-	-	-	-	-	-	12	24	-	-	-	12	75	1	1	-	1	4	-	1	-	-	43	13	10	-
3d Hall, . . .	-	-	-	-	-	-	-	6	-	-	-	10	24	1	1	-	1	1	1	1	-	-	18	1	3	-
4th Hall, . . .	-	12	-	4	-	-	36	43	18	12	1	76	64	4	4	3	-	1	9	8	-	-	-	1	1	-
Kitchen, . . .	-	-	-	-	-	-	6	-	-	-	-	6	142	4	2	-	-	1	1	1	-	-	-	-	-	-
Rear, . . .	2	-	-	-	-	-	-	-	12	-	-	6	56	4	4	-	-	1	8	1	-	-	-	-	-	-
Centre, . . .	-	-	-	-	-	-	-	-	-	-	-	6	56	4	2	-	-	1	1	1	-	-	-	-	-	-
Aggregate, . . .	12	132	26	18	18	63	161	255	222	85	7	497	1,418	30	41	15	10	60	65	20	106	9	189	46	135	28

29. *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1886.</b>								
October, .	800	155	192	347	213	50	308	358
November, .	718	155	209	364	208	31	324	355
December, .	659	155	200	355	210	49	351	400
<b>1887.</b>								
January, .	613	155	181	336	197	52	348	400
February, .	493	155	169	324	228	48	335	383
March, .	561	155	178	333	213	54	368	422
April, .	643	155	175	330	182	51	321	372
May, .	888	155	194	349	193	52	370	422
June, .	800	155	188	343	178	52	361	413
July, .	797	155	175	330	199	26	343	369
August, .	782	155	184	349	222	44	322	366
September, .	773	155	180	335	221	84	318	402
Totals, .	8,529	1,860	2,225	4,085	2,454	593	4,069	4,662

The patients whose work is recorded in this table were employed as many hours in the day as were the employees in each of the several departments, respectively. The total number of days' work is 20,730, to which may be added 341 days by men in the mattress room, making an aggregate of 21,071 days.

No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler room and the carpenter's shop. A large amount of other work was done, both in the halls and at irregular times out of them.

*30. List of Articles made in the Sewing-Room.*

Dresses, . . . . .	284	Napkins hemmed, . . . . .	98
Waists, . . . . .	22	Curtains, . . . . .	117
Chemises, . . . . .	261	Sheets, . . . . .	548
Drawers, . . . . .	128	Pillow-cases, . . . . .	726
Skirts, . . . . .	270	Spreads, . . . . .	102
Night-dresses, . . . . .	33	Bed-ticks, . . . . .	98
Burial robes, . . . . .	6	Pillow-ticks, . . . . .	48
Hats trimmed, . . . . .	12	Cushions, . . . . .	21
Shirts, . . . . .	371	Clothes-bags, . . . . .	13
Suspenders, pairs, . . . . .	292	Dish-towels, . . . . .	487
Collars, . . . . .	172	Roller-towels, . . . . .	222
Aprons, . . . . .	387	Carpets made, . . . . .	13
Handkerchiefs hemmed, . . . . .	48	Carpet-strips hemmed, . . . . .	107
Camisoles, . . . . .	40	Ox-blankets, . . . . .	4
Table-spreads, . . . . .	5	Articles repaired, . . . . .	15,832
Table-cloths, . . . . .	15		

*31. Upholstery Done in the Year.*

Hair mattresses overhauled, hair repicked, . . . . .	115
Hair mattresses made, new materials, . . . . .	39
New husk underbeds made, new materials, . . . . .	20
Old underbed ticks filled with new husks, . . . . .	108
Hair pillows made, new materials, . . . . .	28
Hair pillows overhauled, hair repicked, . . . . .	43
Cushions made, new material, . . . . .	54

*32. Annual Cost of Gas.*

Y E A R .	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.4	1 86
1886-87, . . . . .	854 97	478.54	1 79



*33. Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,*	Northampton, .	1856	1857	Term expired.
Lucien C. Boynton,*	Uxbridge, .	1856	1858	" "
Eliphalet Trask, .	Springfield, .	1856	1875	" "
John C. Russell,*	Great Barrington,	1856	1859	Resigned.
Horace Lyman, .	Greenfield, .	1856	1857	Removed.
Charles Smith, .	Northampton, .	1857	1860	Resigned.
Luther V. Bell,*	Somerville, .	1857	1859	"
Zebina L. Raymond,*	Greenfield, .	1858	1859	"
Franklin Ripley,*	Greenfield, .	1859	1860	Died in office.
Edward Dickinson,*	Amherst, .	1859	1864	Resigned.
Walter Laffin,*	Pittsfield, .	1859	1866	Term expired.
Silas M. Smith, .	Northampton, .	1860	1868	" "
Charles Allen, .	Greenfield, .	1860	1861	Resigned.
Alfred R. Field,*	Greenfield, .	1861	1864	"
Edward Hitchcock, .	Amherst, .	1863	1879	"
Silas M. Smith,*	Northampton, .	1864	1887	Died in office.
Edmund H. Sawyer,*	Easthampton, .	1864	1879	" "
Henry L. Sabin,*	Williamstown, .	1866	1876	Term expired.
Adams C. Deane, .	Greenfield, .	1875	—	Still in office.
Henry W. Taft, .	Pittsfield, .	1876	—	" "
William M. Gaylord,	Northampton, .	1879	1888	Term expired.
Lyman D. James, .	Williamsburg, .	1879	—	Still in office.
Christopher Merritt,	Springfield, .	1883	—	" "
Sarah A. Woodworth,	Chicopee, .	1884	—	" "
Sarah M. Butler, .	Northampton, .	1884	—	" "
John L. Otis, .	Florence, .	1887	—	" "

• Deceased.

*34. Officers and Employees.*

Time employed, Oct. 1, 1887.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M.D., Superintendent, . . . . .	18	9	16
David G. Hall, M.D., 2d Assistant Physician, . . . . .	4	3	20
Emily F. Wells, M.D., 3d Assistant Physician, . . . . .	2	9	—
Walter B. Welton, Clerk, . . . . .	21	7	16
John Mercier, Farmer, . . . . .	20	2	—
Danford Morse, Engineer, . . . . .	22	6	9
Robert H. Gallivan, Supervisor, . . . . .	14	5	13
Lucy A. Gilbert, Supervisor, . . . . .	20	7	20
F. Josephus Rice, Steward, . . . . .	28	11	26
Susan A. Miller, Seamstress, . . . . .	—	2	17
Nettie Lyman, Laundress, . . . . .	—	2	7
George B. Walker, Baker, . . . . .	3	3	22
Gertrude C. Arnold, Assistant Clerk, . . . . .	3	8	27
Idelle M. Dodge, Assistant Supervisor, . . . . .	—	5	21
Netta M. Buxton, Assistant Seamstress, . . . . .	—	3	5
Jennie B. Morse, Assistant Laundress, . . . . .	—	9	29
Mary Meagher, Assistant Laundress, . . . . .	1	4	21
Henry W. Esty, Attendant, . . . . .	5	6	7
William J. Douglass, Attendant, . . . . .	5	6	5
John L. Howard, Attendant, . . . . .	5	3	25
James M. Shipperly, Attendant, . . . . .	2	8	1
William J. Estler, Attendant, . . . . .	2	1	27
Thomas Lavelle, Attendant, . . . . .	1	6	23
James E. Gerald, Attendant, . . . . .	1	5	28
Charles J. Gale, Attendant, . . . . .	1	3	14
John McCalman, Attendant, . . . . .	—	6	13
Anson T. Hale, Attendant, . . . . .	—	5	—
Robert McNaughton, Attendant, . . . . .	—	2	30
P. B. Prentiss, Attendant, . . . . .	—	2	—
Maria E. Graves, Attendant, . . . . .	19	8	9
Jane McGuire, Attendant, . . . . .	12	5	5
Cecile Riel, Attendant, . . . . .	10	11	25
Frances F. Poor, Attendant, . . . . .	8	11	15
Flora R. Brown, Attendant, . . . . .	4	9	25
Jeanette McLean, Attendant, . . . . .	4	1	3
Nellie D. Parker, Attendant, . . . . .	3	6	17
Philomene Goyette, Attendant, . . . . .	4	6	13
Nellie E. Stearns, Attendant, . . . . .	2	3	2
Effie Clapp, Attendant, . . . . .	1	3	17
Elizabeth M. Pomeroy, Attendant, . . . . .	1	2	5
Lucie L. Barrett, Attendant, . . . . .	1	—	12
Alice Davis, Attendant, . . . . .	—	1	10
Jessie A. Rand, Night Watch, . . . . .	6	3	11
Lena Marble, Farmers' Dining Room, . . . . .	2	2	7
Hattie Darling, Centre, . . . . .	—	10	—
Thomas C. Powers, Assistant Steward, . . . . .	13	6	11
Mary Sweeney, Centre, . . . . .	3	1	1
Lillian M. Douglass, Cook, . . . . .	5	11	22
Isabella Andrews, Assistant Cook, . . . . .	—	3	19

34. *Officers and Employees — Concluded.*

NAME.	Years.	Months.	Days.
Jeanette Loomis, Assistant Cook, . . .	—	1	15
Lillie B. Rhodes, Assistant Cook, . . .	—	1	10
Mary A. Carnes, Rear, . . .	4	3	—
William C. Hall, Assistant Engineer, . . .	22	—	20
Nicholas Riel, Night Engineer, . . .	11	9	25
Moses Bartlett, Watchman, . . .	2	6	—
Sifroi Belville, Carpenter, . . .	17	5	7
Walter Tower, Carpenter, . . .	10	10	—
Alfred Parenteau, Painter, . . .	22	1	18
David Mercier, Coachman, . . .	10	7	14
Benjamin Rockwell, Assistant Farmer, . . .	20	4	—
Julius Freeman, Assistant Farmer, . . .	10	2	24
Henry Wilson, Assistant Farmer, . . .	8	5	8
James Madden, Assistant Farmer, . . .	12	—	29
Eugene Sullivan, Assistant Farmer, . . .	12	5	—
Erie Ditty, Assistant Farmer, . . .	4	9	7
George E. Hunter, Assistant Farmer, . . .	1	5	19
James R. Phillips, Assistant Farmer, . . .	—	4	18
Loren Tower, Car Boy, . . .	2	—	18



EDDIPUNG FOR INSAANE.  
WASS.



THIRTY-THIRD ANNUAL REPORT  
OF  
THE TRUSTEES  
OF THE  
NORTHAMPTON LUNATIC HOSPITAL,  
FOR THE  
YEAR ENDING SEPTEMBER 30, 1888.

BOSTON :  
WRIGHT & POTTER PRINTING CO., STATE PRINTERS,  
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1889.



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# OFFICERS

## OF THE

### NORTHAMPTON LUNATIC HOSPITAL.

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#### TRUSTEES.

MRS. SARAH M. BUTLER,	NORTHAMPTON.
MRS. SARAH A. WOODWORTH,	CHICOPEE.
ADAMS C. DEANE, M.D.,	GREENFIELD.
HENRY W. TAFT, Esq.,	PITTSFIELD.
HON. JOHN L. OTIS,	NORTHAMPTON.
LYMAN D. JAMES, Esq.,	WILLIAMSBURG.
NEHEMIAH A. LEONARD, Esq.,	SPRINGFIELD.

#### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D.,	<i>Superintendent.</i>
EDWARD B. LANE, M.D.,	<i>First Assistant Physician.</i>
DAVID G. HALL, M.D.,	<i>Second Assistant Physician.</i>
EMILY F. WELLS, M.D.,	<i>Third Assistant Physician.</i>
WALTER B. WELTON,	<i>Clerk.</i>
JOHN MERCIER,	<i>Farmer.</i>
DANFORD MORSE,	<i>Engineer.</i>

#### TREASURER.

EDWARD B. NIMS,	NORTHAMPTON.
-----------------	--------------

Office at the hospital.

#### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN,	<i>Male Supervisor.</i>
LUCY A. GILBERT,	<i>Female Supervisor.</i>
F. JOSEPHUS RICE,	<i>Steward.</i>
SUSAN A. MILLER,	<i>Seamstress.</i>
NETTIE LYMAN,	<i>Laundress.</i>
GEORGE B. WALKER,	<i>Baker.</i>



# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The thirty-third annual report of the Trustees of the Northampton Lunatic Hospital for the fiscal year 1887-88 is herewith presented for your consideration, together with the reports of the Treasurer and Superintendent and the tables of statistics.

The changes in the population, improvements, expenditures and receipts, and the general results of the year's work, are given in detail. A review of the operations and condition of the hospital, as observed by us at the monthly meetings and inspections and at other frequent visits, enables us to say that the year has been a successful one. The freedom from any unusual accident, the condition of the patients and the financial prosperity of the institution, afford sufficient proof that the affairs of the hospital have been carefully managed. The continued increase in the number of admissions is noticeable. This number was larger by eighteen than in the preceding year, and larger by eight than in any former year in the history of the institution, not including the transfers from other hospitals which were formerly made in large numbers. All the patients admitted within the past year with one exception were from the four western counties of the State. It is evident from these facts that the time is not far distant when the present accommodations for the insane in western Massachusetts will be insufficient, and that relief in some direction will become necessary.

About eighty patients of the chronic class still remain in the hospital, whose residence or legal settlement is in the eastern part of the State. A large portion of these were transferred from the eastern hospitals in former years.

The number of patients in the hospital at the beginning of the year was 469 : of men, 224, of women, 245. The number admitted during the year was 166 : of men, 87, of women, 79 ; of these 56 were supported by the State, 87 by towns and cities and 23 by individuals. The whole number of cases under treatment in the year was 635 : of men, 311, of women, 324. The number discharged was 154 : of men, 79, of women, 75. Included in this number were 31 deaths, 14 men and 17 women. The number remaining at the end of the year was 481 : of men, 232, of women, 249. The average daily number was 470.25 : of men, 225.88, of women, 244.37. Thirty-six patients were discharged as recovered, 9 as much improved, 46 as improved, 29 as unimproved and 2 as not insane. No suicide has occurred in the hospital since October, 1884. The sanitary condition of the hospital has been good. No epidemic has prevailed, nor has there been any case of contagious disease. The changes in the sanitary apparatus which have been made during the past few years have resulted in a noticeable improvement in the ventilation of the hospital. The year has not been marked by any very important improvements. Still, the extraordinary repairs and the changes which were thought to be necessary have been carried on. The repairs on the roof of the main building have been unusually large. The relaying of the floor in many of the halls and rooms with the best quality of quartered hard pine has been continued, so that the hospital is now supplied with floors of the best description. Fifty-six large black walnut settees, of a thorough and substantial as well as elegant make, have been placed in the halls. For many years past considerable attention has been given to the under-draining of the grounds about the buildings and farm generally. A drain built of brick, two feet in diameter and eleven hundred feet in length, was constructed in the highway from the river near the bridge to the foot of the hill, affording an outlet to the system of drains in the street above. The farm improvements have also been

continued, in the construction of several large and expensive drains, building of roads and culverts and reclaiming waste land. The result is a continual increase in the productiveness and value of the farm. The improvement in appearance in portions of the premises is also noticeable. The demand for repairs, both usual and extraordinary, and for changes and improvements, are continual in institutions of this kind. Without constant care and vigilance the buildings and premises will soon deteriorate. The amounts of money expended for this purpose often appear to be large, yet they are necessary if the hospitals are kept in good working order. An addition was made to the farm by the purchase of a pasture containing about thirty acres situated in the town of Williamsburg. The arrangement of the farm is now more convenient, as the amount of pasture has hitherto been too small. This purchase increases the amount of land belonging to the hospital to about three hundred and ninety-five acres.

The law fixing the price of board for patients supported by towns and cities has always been construed as allowing the hospital to make additional charges for clothing furnished to these patients, and also for damages done by them to the property of the institution. It has been the custom to make these charges since the opening of the hospital, for nearly thirty years, and they have been assented to and paid by all the city and town authorities without question.

Within the past year the interpretation of the law was given by the Attorney-General to the effect that such additional charges were illegal, and, acting upon this interpretation, many towns and cities declined to pay them. We have continued to make these charges as heretofore, but in deference to the opinion of the Attorney-General, we have not presented these accounts for payment to the different cities and towns of the Commonwealth since April 1 of the present year, and probably shall not do so until the correctness of the meaning of the statute as understood by all parties interested, with the new interpretation given to it by the Attorney-General, has been passed upon by the Supreme Judicial Court. This proposition to reduce the income of the hospital is much regretted by the trustees, as it cuts off

a large portion of the funds which it has been the custom to expend in improvements. The experience of many years proves that a reasonable surplus contributes very much to an economical management of the hospital. It enables us to take advantage of favorable prices in purchases, to make repairs when needed, to meet the exigencies of accidents, and lessens the necessity of asking for special appropriations. It is only by strict economy that the hospital can live within its regular income. It does not contribute to good work, nor is it a stimulus to the best effort among those who labor in the hospital from year to year, to be continually studying on how small a sum they can subsist those who are under their care.

It will be noticed that the expenditures outside of actual current expenses are less than usual. It was thought best to curtail these as far as possible, in view of other probable demands upon the funds of the institution.

The Treasurer's report which is appended gives the amounts of each class of expenses. The money received for the board of patients during the year is as follows : —

For State patients,	.	.	.	.	.	\$19,823 64
town patients,	.	.	.	.	.	49,843 41
private patients,	.	.	.	.	.	17,264 99
Total, . . . . .						<hr/> \$86,932 14

No change has occurred in the official staff of the hospital among those who were in office at the beginning of the year.

Dr. Edward B. Lane, formerly first assistant physician at the Boston Lunatic Hospital, was appointed to the office of first assistant physician March 1.

A. C. DEANE,  
 SARAH M. BUTLER,  
 SARAH A. WOODWORTH,  
 HENRY W. TAFT,  
 J. L. OTIS,  
 LYMAN D. JAMES,  
 N. A. LEONARD,

*Trustees.*

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1888.

Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, first, . . . . .	" 1,200 00
Assistant physician, second, . . . . .	" 1,000 00
Assistant physician, third, . . . . .	" 900 00
Treasurer, . . . . .	" 900 00
Treasurer, for clerk hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 25 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 16 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 16 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 58 33
Assistant steward, . . . . .	" 35 00
Attendants (male, 8), . . . . .	" 30 00
Attendants (male, 3), . . . . .	" 23 00
Attendants (male, 2), . . . . .	" 21 00
Attendants (female, 14), . . . . .	" 18 00
Attendant (female, 1), . . . . .	" 20 00
Attendant (female, 1), . . . . .	" 14 00
Night-watch (female), . . . . .	" 18 00
Housework, centre (female, 2), . . . . .	" 16 00
Housework, centre (female, 1), . . . . .	" 15 00
Cook (female), . . . . .	" 18 00
Assistant cook (male), . . . . .	" 18 00
Assistant baker (male), . . . . .	" 10 00
Assistant cooks (female, 3), . . . . .	" 15 00



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Farmers' dining-room (female),	. . . . .	per month,	\$15 00
Housework, rear building (female),	. . . . .	"	10 00
Watchman,	. . . . .	"	30 00
Carpenter,	. . . . .	per day,	2 25
Carpenter,	. . . . .	"	2 00
Painter,	. . . . .	per month,	50 00
Assistant engineer,	. . . . .	"	32 00
Night engineer and gardener in summer,	. . . . .	"	30 00
Coachman,	. . . . .	"	28 00
Farm hands (6),	. . . . .	"	28 00
Farm hand (1),	. . . . .	"	25 00
Farm hand (1),	. . . . .	"	23 00

In the warm season we generally hire some farm hands by the day. This year we had four at \$1.50 per day, without board.

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1888.

---

Live stock on hand, . . . . .	\$8,051 00
Produce of farm on hand, . . . . .	9,843 75
Carriages and agricultural implements, . . . . .	3,120 00
Machinery and mechanical fixtures, . . . . .	6,660 00
Beds and bedding in inmates' department, . . . . .	12,500 00
Other furniture in inmates' department, . . . . .	5,900 00
Personal property of State in Superintendent's department,*	9,000 00
Ready-made clothing, . . . . .	3,329 50
Dry goods, . . . . .	3,004 32
Provisions and groceries, . . . . .	3,354 33
Drugs and medicine, . . . . .	850 00
Fuel, . . . . .	6,472 30
Library, . . . . .	1,000 00
Paints and oils, . . . . .	550 00
<hr/>	
Total, . . . . .	\$73,635 20

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other apartments.

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as Treasurer of the hospital, for the fiscal year ending with the 30th of September, 1888. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursement of money during the year, and the financial condition at its close.

### ASSETS.

Three hundred and ninety-four acres of land,	\$45,800 00
Hospital building, . . . . .	250,000 00
Farm house, \$2,000; brick house, \$2,000, . . . . .	4,000 00
Three dwellings (H. Day lot), . . . . .	1,500 00
Storehouse and shops, . . . . .	16,000 00
Two barns, . . . . .	5,500 00
Horse stable, . . . . .	2,000 00
Scullery and wood house, . . . . .	700 00
Lumber house, . . . . .	1,100 00
Pump house, . . . . .	1,000 00
Cart shed, . . . . .	500 00
Coal house, . . . . .	150 00
Piggery, . . . . .	3,000 00
Cattle shed, . . . . .	1,200 00
Fire proofs for oils and paints, . . . . .	500 00
Two ice houses, . . . . .	500 00
	\$333,450 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the Trustees' report, . . . . .	\$73,635 20
Reserve Fund, . . . . .	10,000 00

## RECEIPTS.

Cash on hand Sept. 30, 1887, . . . . .	\$5,483 02
Received from the State Treasurer, . . . . .	19,640 30
from towns, . . . . .	52,340 52
from individuals, . . . . .	17,157 66
from sales, . . . . .	2,636 76
from interest, . . . . .	615 20
	<hr/>
	\$97,873 46

## PAYMENTS.

1st. Salaries and labor, . . . . .	\$28,950 93
2d. Provisions and supplies, viz.:—	
Meats of all kinds, . . . . .	\$5,855 76
Fish of all kinds, . . . . .	1,516 67
Fruit and vegetables, . . . . .	2,163 27
Flour, . . . . .	2,696 50
Grain and meal for table, . . . . .	1,093 94
Tea, coffee and chocolate, . . . . .	944 93
Grain and meal for stock, . . . . .	3,138 54
Sugar and molasses, . . . . .	2,020 81
Butter and cheese, . . . . .	4,667 22
Salt and other groceries, . . . . .	1,794 51
All other provisions, . . . . .	668 56
	<hr/>
	26,560 71
3d. Clothing, . . . . .	3,490 03
4th. Fuel and lights, . . . . .	8,564 85
5th. Medicines and medical supplies, . . . . .	1,202 59
6th. Furniture, beds and bedding, . . . . .	4,069 66
7th. Transportation and travelling expenses, . . . . .	271 06
8th. Ordinary construction and repairs, . . . . .	2,566 98
9th. Extraordinary construction and repairs, . . . . .	3,199 33
10th. Miscellaneous expenses, including,—	
1. Real estate, . . . . .	\$800 00
2. Farm stock, . . . . .	1,145 30
3. Farm supplies, . . . . .	3,669 31
4. Water, . . . . .	1,177 90
5. Minor expenses, . . . . .	917 85
6. Contingencies, . . . . .	935 63
	<hr/>
	8,645 99
Total expenditures, . . . . .	<hr/>
	\$87,522 13

## LIABILITIES.

Salaries and wages due Oct. 1, 1888, . . . . .	\$3,921 83
Miscellaneous bills due, . . . . .	1,912 22
	<hr/>
	\$5,834 05

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Due the institution for board Oct. 1, 1888,—

from State, . . . . .	\$4,950 05	
towns, . . . . .	13,751 73	
individuals, . . . . .	4,484 25	
interest, . . . . .	100 00	
treasurer, Sept 30, 1888, . . .	10,351 33	
		<u>\$33,637 36</u>

## SUMMARY.

Total receipts, . . . . .	\$97,873 46
Total payments, . . . . .	<u>87,522 13</u>
Cash on hand Sept. 30, 1888, . . . . .	\$10,351 33
Total liabilities, . . . . .	\$5,834 05
Total debts due the institution, . . . . .	33,637 36
Total expenditures, . . . . .	<u>87,522 13</u>

Dividing this sum by 470.25, the average number of patients,

we have the average expenditure per patient, . . .	\$186 11 <sup>5</sup> / <sub>100</sub>
And the average weekly expenditure per patient, . . .	3 55 <sup>9</sup> / <sub>100</sub>

Deducting from the total expenditures, . . . . .	\$87,522 13
The extraordinary expenses, . . . . .	<u>3,999 33</u>

We have the current expenses, . . . . . \$83,522 80

Dividing \$83,522.80 by 470.25, the average number of pa-

tients, we have the average expenditure per patient, . . .	\$177 61 <sup>5</sup> / <sub>100</sub>
Making the average weekly expenditure per patient, . . .	3 39 <sup>9</sup> / <sub>100</sub>

Deducting the increase of personal assets, . . . . .	\$1,520 93
From the current expenses, . . . . .	<u>83,522 80</u>

We have the *necessary* cost for the year, . . . . . \$82,001 87

Dividing \$82,001.87 by 470.25, the average number of pa-

tients, we have, as the annual cost of each patient, . . .	\$174.379
Making the average weekly cost of each patient, . . .	3.33 <sup>1</sup> / <sub>100</sub>

EDWARD B. NIMS,

*Treasurer.*

We have examined, as auditors, the accounts of the Treasurer, and found a satisfactory voucher for every entry.

A. C. DEANE,  
SARAH M. BUTLER,  
*Auditors.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The Superintendent presents for your consideration his report for the year 1887–88.

The following table gives the general statistics concerning the patients who have been under treatment within the year :

### 1. General Statistics, 1887–88.

	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1887, . . . . .	224	245	469
Admitted within the year, . . . . .	87	79	166
Whole number of cases within the year, . . . . .	311	324	635
Discharged within the year, . . . . .	79	75	154
Viz.: as recovered, . . . . .	23	13	36
much improved, . . . . .	3	6	9
improved, . . . . .	25	22	47
unimproved, . . . . .	12	17	29
Deaths, . . . . .	14	17	31
Not insane, . . . . .	2	—	2
Patients remaining Sept. 30, 1888, . . . . .	232	249	481
Viz.: supported as State patients, . . . . .	61	54	115
town patients, . . . . .	137	161	298
private patients, . . . . .	34	34	68
Number of different <i>persons</i> within the year, . . . . .	305	319	624
<i>Persons</i> admitted, . . . . .	82	76	158
recovered, . . . . .	22	13	35
Daily average number of patients, . . . . .	225.88	244.37	470.25

On the 1st of October, 1888, six women and five men were transferred from State to town charge. Hence the new year will begin with—

State patients, . . . . .	56	48	104
Town patients, . . . . .	142	167	309

Four hundred and sixty-nine patients were present in the hospital at the beginning of the year, 224 of whom were men and 245 women. The admissions during the year were 166, of whom 87 were men and 79 women. These admissions were all from the general population, no transfers having been received from other institutions. This number is larger than ever before in the history of the hospital. The total number of cases under treatment for the year was 635, of whom 311 were men and 324 women. The whole number of persons under treatment in course of the year was 624.

The number of persons admitted was 158; one man and two women were discharged and readmitted; one man and three women were admitted, discharged and readmitted. Two men were admitted and discharged twice, and one man was admitted and discharged three times, all within the year.

Of the 166 cases admitted, 122 were first admissions; 35, second; 6, third; and 3, fifth.

One hundred and six of those admitted were of American birth, and sixty of foreign.

The daily average, 470.25, is a little less than in the preceding year. The largest number in the house on any one day was 482.

Of those admitted, 47 were suffering from marked acute disease; 11 were suicidal; 15 were homicidal; 4 were epileptics; 5 were paretic; 98 were cases of mania; 12 of melancholia. In 24 cases there was well-marked dementia. Seven cases were committed under the inebriate law. Fifty-eight persons had been insane more than six months. The percentage of cases which recover after this duration is comparatively small. In some forms of insanity it is practically certain that a permanent cure is out of the question.

The number of cases discharged was 154: of men, 79; of women, 75. The number of persons discharged was 150: of men, 75; of women, 75.

#### STATUS OF PATIENTS.

The status of the patients in the hospital has not materially changed within the year past.

The number of patients supported by the State at the

beginning of the year was 104, by towns and cities 300, by individuals 65.

Of the 166 patients admitted during the year, 56 were supported by the State, 87 by towns and cities, and 23 by individuals.

Of the 154 patients discharged, 47 were supported by the State, 87 by towns and cities, and 20 by individuals.

Remaining at the end of the year, 115 State patients, 298 town patients, and 68 private patients.

A considerable number of patients whose board bills are charged to towns and cities, and whose names are entered upon the hospital records as town patients, are in reality supported by individuals, the towns or cities being indemnified for the expenses.

The following table shows the weekly average number in each class for two years past, and the changes in status as compared with the preceding year : —

	1886-87.			1887-88.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, .	70.826	51.961	122.78	60.37	51.80	112 17
Town patients, .	129.153	160.230	289.38	132.88	161.13	294.01
Private patients, .	33.404	32.596	66.00	32.67	31.34	64.01

#### RECOVERIES.

It is perhaps hardly worth the while to repeat what has been in substance frequently stated in former reports concerning this subject. It is still our belief that the number of reported recoveries varies in different hospitals according to the standard adopted by the physicians in charge. It is the custom of this hospital to apply the term recovered to those cases only where the restoration appears to be complete, and in which the probability of a return of the disease is extremely small. We are not willing to sacrifice what we believe to be the true principle in these cases.

The State hospitals labor under a disadvantage in that



they have no choice in the character of the patients admitted, being compelled to receive all that are committed.

The fairest method of reckoning the percentage of recoveries is to make the estimate on the number of the cases admitted in which there is a reasonable probability of cure. Every hospital physician knows that in large numbers of cases he can decide at once upon examination that recovery is practically out of the question.

Of the 166 cases admitted during the year to this hospital 55 per cent. could be justly pronounced as probably incurable. Thirty-six patients were discharged as recovered. Twelve recoveries are reported among the 122 first admissions, and one among the 35 of second.

The ratio of persons recovered to the number admitted was 22.15 per cent.

The ratio of persons recovered to the number discharged was 23.65 per cent.

The ratio of persons recovered to the number discharged, exclusive of deaths, was 29.91 per cent.

#### DISCHARGE ON PROBATION.

Thirty-seven patients were discharged on probation under the sixty-days law. Of these, 36 were discharged at the end of the sixty days and 1 returned to the hospital; 25 of this number went to their homes, 8 to almshouses and 4 to board in families.

Nearly the whole number of these were patients who were not regarded as fully recovered, and most of them were cases of such a character as to make a trial necessary before the officers in charge could decide as to the advisability of a permanent discharge.

During the past three years 25 patients who were removed by the Board of Lunacy and Charity, and boarded in families, were discharged under this law. Of this number two returned to the hospital on account of physical disabilities which needed special treatment, and two by reason of a recurrence of maniacal excitement. The success of this experiment seems to justify us in believing that many of the quiet chronic cases can be safely and properly cared for in this manner under suitable supervision.

Many cases of a similar character are removed from the hospitals and cared for by friends. In the latter instance personal interest enters more largely into the motive for removal, and their subsequent care and treatment.

#### DEATHS.

The number of deaths for the year was 31, this being the same number as for the year preceding. The daily average population being a little smaller, makes the percentage of deaths a little larger than in the previous year, as will be seen from the table of percentages.

In a large proportion of the cases the disease was chronic in character. In many others the cause was the result of long-continued abnormal conditions. Seven deaths were caused by consumption, two by Bright's disease and two by heart disease of long standing. Three persons who had been for many years in the hospital died of chronic brain disease. In three cases, apoplexy following other disease was the cause of death, — one of a woman who had been an inmate of the hospital one day. One woman, who had disease of the heart for years, was brought to the hospital in an exhausted condition, and soon died. Two patients died of epilepsy of long standing, one of paralysis; one patient, an aged woman, of maniacal exhaustion. One man, who had been confined to his bed for two years from nervous affections, died of exhaustion. One man who had been a patient for twenty-eight years, and who had been accustomed to work about the barns for over twenty years, fell through a scuttle by accident, producing fracture of the skull. One man eighty-five and one woman ninety-two years of age died without any apparent disease. One person only died of general paralysis.

The amount of acute disease has been unusually small. The hospital has been free from any case of suicide for nearly four years.

The ratio of deaths to the daily average number of patients was 6.59 per cent. ; to the total number of cases treated, 4.88 per cent.

Of the 31 persons who died, 6 were supported by the State, 21 by cities and towns, and 4 by individuals. The

# 22 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

usual table of the annual number of deaths and ratio is appended.

*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1888.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per cent. on Whole No. of Patients treated.	Per cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.08	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.4	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47
1887-88, .	635	470.25	14	17	31	4.88	6.59

### WORSHIP AND ENTERTAINMENT.

The following table gives a list of the assemblies of patients during the year :—

#### *Exercises in Chapel.*

1. ON THE SABBATH,—

Divine worship, . . . . .	53 days.
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2. ON SECULAR EVENINGS,—

(a) *Readings and Recitations, opened and closed with music:*

The Bible and selections of poetry, . . . . .	49 days.
The Bible and selections of prose, . . . . .	2 "
The Bible and selections of poetry and prose, . . . . .	2 "
Miscellaneous selections of prose, . . . . .	82 "
Miscellaneous selections of poetry, . . . . .	5 "
Miscellaneous selections of poetry and prose, . . . . .	75 "
Recitations, . . . . .	1 "

(b) *Other Entertainments:*

Pictures shown with the stereopticon, . . . . .	8 "
Concerts, . . . . .	2 "
Ventriloquism, . . . . .	1 "
Sleight of hand, . . . . .	1 "

(c) *Social Assemblies:*

Quadrille parties, . . . . .	20 "
No assembly, . . . . .	65 "

Total, . . . . .	366 days.
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Religious services were held in the chapel on Sabbath afternoons. The average attendance at service was 279, the largest number was 293, the smallest, 261.

The evening assemblies were omitted on Tuesday and Friday evenings in the months of June, July, August and September, and on the evenings of days in which official visits were made to the hospital.

Thanksgiving Day was observed with the usual Thanksgiving dinner and a dance in the evening. A special entertainment was prepared for Christmas Eve, consisting mainly of exercises appropriate to the occasion, a Christmas tree and gifts for all the patients in the house; many of these were furnished by friends. The true value of these exercises cannot be rightly estimated by those who are unacquainted

with hospital life and unaccustomed to the care of the insane ; and it is often surprising to those who conduct the exercises to find how well they are comprehended and how generally they are appreciated. Mental disorder does not necessarily destroy one's ability to follow a line of argument or to enjoy a bit of humor. The sermon, the lecture, the reading and concert are often criticised and discussed and commented upon.

#### INEBRIATES.

The experience of this hospital in regard to the commitment of persons under the dipsomania act proves, in our opinion, that under the present working of the law very little good is accomplished. The great difficulty that stands in the way is, that the patients recover in a short time from the immediate effects of their intemperance, become restless, and desire to be discharged. The friends of the patients, either because they are unwilling to incur the displeasure of the patient, or for other reasons, request that they be discharged. The result is that they are removed before any permanent benefit is accomplished. The appetite for stimulants is not removed, and as a rule they fall again into their former habits, and the second state is worse than the first.

Six persons were committed during the year as inebrates. The first remained in the hospital three months, was discharged, and in a short time was recommitted. The second remained two months, and after discharge relapsed into his old habit. The third remained in the hospital one and a half months, was again committed and remained one month ; after his discharge he fell into the same course and soon died from the effects. The fourth remained one month, and a few weeks after his discharge was sentenced to the house of correction. The fifth and sixth have been in the hospital respectively three and four weeks. The latter is one of that class of cases in which the intemperance is not habitual. Under a peculiar combination and stress of circumstances they become temporarily addicted to the use of stimulants. They usually have an earnest desire and determination to reform, and the restraint of hospital life is often of great assistance to them.

## FARM.

The season has been favorable for most of the crops upon the farm, the total products being larger than ever before. The amount of hay produced is more than ever, while that of apples and potatoes, with other vegetables, is amply sufficient for the needs of the hospital. Each succeeding year's experience confirms the opinion that the farm is a most valuable adjunct to the hospital. A large number of patients are admitted each year who are accustomed to out-door work and who are ready to assist in the farm labor. While no patient is compelled to work, the officers of the hospital feel that they are warranted in advising and even urging those who are in a suitable condition to engage in some employment. The following table gives the annual amount of hay produced since 1864:—

1864, estimated, . . .	40 tons.	1877, weighed, . . .	154 tons.
1865, " . . .	62 "	1878, " . . .	179 "
1866, " . . .	42 "	1879, " . . .	144 "
1867, weighed, . . .	82 "	1880, " . . .	154 "
1868, " . . .	86 "	1881, " . . .	213 "
1869, " . . .	91 "	1882, " . . .	170 "
1870, " . . .	74 "	1883, " . . .	197 "
1871, " . . .	75 "	1884, " . . .	174 "
1872, " . . .	91 "	1885, " . . .	251 "
1873, " . . .	84 "	1886, " . . .	269 "
1874, " . . .	120 "	1887, " . . .	302 "
1875, " . . .	100 "	1888, " . . .	305 "
1876, " . . .	111 "		

The piggery still continues to be a source of considerable profit to the hospital. Forty-six hogs were slaughtered, the heaviest being 617 pounds. The total product for the year was 18,465 pounds. The table appended gives the amount for each year since 1865:—

*Pork Raised upon the Farm.*

1865, . . .	6,265 pounds.	1872, . . .	11,366 pounds.
1866, . . .	5,443 "	1873, . . .	10,511 "
1867, . . .	7,416 "	1874, . . .	12,024 "
1868, . . .	7,791 "	1875, . . .	12,693 "
1869, . . .	8,469 "	1876, . . .	12,467 "
1870, . . .	7,447 "	1877, . . .	13,605 "
1871, . . .	7,863 "	1878, . . .	14,451 "

1879, . . . 13,569 pounds.	1884, . . . 10,192* pounds.
1880, . . . 14,729 "	1885, . . . 17,544 "
1881, . . . 15,610 "	1886, . . . 21,503 "
1882, . . . 14,414 "	1887, . . . 26,331 "
1883, . . . 15,612 "	1888, . . . 18,465 "

The number of gallons of milk produced during the year was 29,590 ; one-third of this number is given in the list of farm products ; the other two-thirds are charged to the farm in the quantity of food consumed, cost of the animal, etc. The farm now contains about 395 acres. It has always been well managed.

Thorough tillage and fertilizing have largely increased its productiveness, while under-draining and reclaiming waste land has continually increased the amount of available meadow and pasturage. It has now become a source of considerable profit, aside from the benefit and convenience of having at hand a large supply of the best quality of milk, pork, vegetables and fruits.

*List of Products in 1888.*

Hay (first growth of home farm), 186½ tons, . . .	\$2,793 75
Hay (south lot), 31½ tons, . . .	476 25
Hay (Clarke orchard), 14½ tons, . . .	213 75
Hay (aftergrowth of whole farm), 68½ tons, . . .	1,031 25
Hay (Hungarian grass), 4 tons, . . .	60 00
Corn fodder, dry, 24 tons, . . .	144 00
Corn, 360 bushels, . . .	252 00
Potatoes, 2,732 bushels, . . .	1,639 20
Broom seed, 40 bushels, . . .	16 00
Broom brush, 1,000 pounds, . . .	60 00
Carrots, 130 bushels, . . .	52 00
Sugar beets, 876 bushels, . . .	262 80
Beets, 175 bushels, . . .	87 50
Onions, 510 bushels, . . .	255 00
Turnips, 809 bushels, . . .	202 25
Parsnips, 70 bushels, . . .	35 00
Beans (Lima), in shell, 85 bushels, . . .	85 00
Beans (common), in shell, 64½ bushels, . . .	64 50
Beans (string), 9½ bushels, . . .	19 00
Beans (Lima), dry, 5 bushels, . . .	15 00
Pease (green), in pod, 109½ bushels, . . .	219 00
Sweet corn (green), in ear, 310 bushels, . . .	310 00
Tomatoes, 216 bushels, . . .	216 00

\* Quantity diminished by disease.

Lettuce, 81 bushels, . . . . .	\$81 00
Cucumbers, 164 bushels, . . . . .	164 00
Squash (summer), 106 bushels, . . . . .	106 00
Squash (winter), 7,100 pounds, . . . . .	142 00
Melons, 2,236 pounds, . . . . .	22 36
Asparagus, 12 bushels, . . . . .	36 00
Pie plant, 130 bushels, . . . . .	130 00
Beet greens, 12 bushels, . . . . .	12 00
Spinach, 14½ bushels, . . . . .	14 50
Cabbage, 3,400 heads, . . . . .	102 00
Currants, 11½ bushels, . . . . .	28 00
Apples, 1,757 barrels, . . . . .	2,196 25
Pears, 37½ bushels, . . . . .	28 12
Quinces, 10 bushels, . . . . .	20 00
Grapes, 210 pounds, . . . . .	5 00
Veal (raised here), 1,038 pounds, . . . . .	114 61
Pork, 18,338 pounds, . . . . .	1,293 82
Pigs sold, 293, . . . . .	868 50
Pigs, roasting, 6, . . . . .	12 00
Ducks, 98 pounds, . . . . .	19 69
Turkeys, 14 pounds, . . . . .	2 80
Chickens, 1,008 pounds, . . . . .	198 82
Heads and plucks, 19, . . . . .	19 00
Eggs, 501 dozen, . . . . .	110 27
Milk (grass fed), 9,863½ gallons, . . . . .	2,367 20
Cider, 80 barrels, . . . . .	160 00
Calf-skins, 10, . . . . .	12 50
Young calves sold, 7, . . . . .	25 00
Wood, 34½ cords, . . . . .	104 25
Ensilage, 90 tons, . . . . .	270 00
Rye straw, 4 tons, . . . . .	48 00
Rye, 60 bushels, . . . . .	42 00
	<hr/>
	\$17,259 85

### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report of 1886-87, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board bills of its patients, and the small sum of ten dollars each, for the funeral expenses of State patients who die in the hospital, and



whose remains are not removed for burial. The receipts from the last-mentioned source during the year were \$50.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is a compensation fixed by statute law. One hundred and fifteen, or more than one-fifth, of the inmates now belong to this class. During the past year the weekly average of them was 23.85 per cent. of the whole. For town patients it has received, and now receives, from the treasuries of the towns, respectively, in which these patients have legal settlements, the same sum per week (\$3.25 each) as from the State treasury for State patients.

Formerly the towns clothed their patients and remunerated the hospital for damages done by them, but have not done so since April 1, 1888. Two hundred and ninety-eight of the inmates are now in this class. The weekly average of them for the year was 62.52 per cent. of the whole. For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1888, was \$5.143 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 13 per cent. of the whole. The average weekly pay per capita, charged by the hospital for all its patients, State, town and private, in the course of the year, is \$3.517.

Such are the pecuniary resources of the institution. We turn to the results of the finance of the last twenty-three years.

In April, 1865, the hospital was freed from debt. The financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the 1st of June, 1867, it received a direct bonus from the State of \$5,000 in two appropriations, for specific purposes, — one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to nearly two hundred and four acres, together with four dwelling-houses. The total cost of this real estate was \$32,883.92. The State has, then, in this way alone, been overpaid for its bonus in the sum of \$27,883.92.

The amount paid by the hospital for repairs and improvements in the course of the last year is \$5,766.31; in the course of the twenty-three years from Sept. 30, 1865, to Sept. 30, 1888, is \$266,527.09.

The surplus of cash assets now on hand, including the reserve fund, is \$37,803.31, or \$37,501.27 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$16,160.45. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$13,660.45. The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000.

Collecting these several sums, the account of debit of the Commonwealth to the hospital appears to be as follows:—

Excess of cost of land over direct bonus, . . . . .	\$27,883 92
Repairs and improvements, . . . . .	266,527 09
Excess of present cash assets, . . . . .	37,501 27
Increase of provisions and supplies, . . . . .	13,660 45
Increase of furniture, . . . . .	8,000 00
Total, . . . . .	<u>\$353,572 73</u>

The necessary current repairs of the building may be estimated at \$3,000 annually. Deducting this sum for each of the twenty-three years since Sept. 30, 1865, a total of \$69,000, there is a remainder of \$284,572.73. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely on direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary we have taken into account only the actual disbursements of money by the hospital in contributing to its own improvements. But, aside from this, a large amount of work in effecting those improvements was performed by the teams of horses and cattle belonging to the institution, and by the regular corps of its employees.

Agreeably to all correct business principles, as well as to the custom at some similar institutions, the hospital should be accredited with the amount of the value of this labor; but no credit has ever been given for it. Many thousands of dollars might, in this direction, be justly added to the sum above mentioned, as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition, it may be interesting to know to what extent the tax-payers of the State have contributed to the institution. From a list furnished by the State treasurer of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection down to the present day, it has cost the people of the Commonwealth only three hundred and seventy-five thousand five hundred and fifty dollars (\$375,550).

#### ACKNOWLEDGMENTS.

The hospital has been kindly remembered in the past year by many of its friends in contributions of reading matter and gifts. Thanks are due to Mr. S. E. Bridgeman for a quantity of papers and magazines; to Miss Florence S. Austin for a box of Christmas presents and a quantity of reading matter; to Mrs. S. M. Butler and Mrs. S. A. Woodworth for numerous gifts to patients; to the publishers of the "Staaten Zeitung" and "Christian Register" for one copy of those papers weekly; to Dr. T. W. Meekins for stereopticon exhibitions; to Misses Longley and Shattuck for concerts; and to many others who are unknown, for gifts and reading matter.

## CONCLUSION.

The year has brought about the usual number of changes. Eleven attendants left the service, four of this number being discharged for transgression of rules, or misconduct. No change has occurred in the list of the subordinate officers. It is gratifying to be able to say that the success of the institution during the year is largely due to the hearty co-operation that has been given by all who were associated with me, and to the personal support and wise counsel of your Board.

EDWARD B. NIMS.



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# APPENDIX.

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**\* 2. Monthly Admissions, Discharges and Averages.**

MONTHS.	ADMISSIONS.			DISCHARGES (including Deaths).			DAILY AVERAGES OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1887.</b>									
October, . . . . .	10	6	16	6	9	15	226.16	245.13	471.29
November, . . . . .	5	6	11	6	5	11	228.7	243.5	472.2
December, . . . . .	7	6	13	11	11	22	222.90	239.19	462.09
<b>1888.</b>									
January, . . . . .	4	2	6	6	3	9	222.61	237.81	460.42
February, . . . . .	7	12	19	4	5	9	221.72	241.93	463.65
March, . . . . .	5	7	12	4	2	6	224.80	245.42	470.22
April, . . . . .	9	6	15	9	7	16	224.6	248.9	473.5
May, . . . . .	8	6	14	7	6	13	224.48	247.45	471.93
June, . . . . .	10	8	18	8	8	16	227.8	246.	473.8
July, . . . . .	5	2	7	8	6	14	227.90	247.77	475.67
August, . . . . .	10	5	15	7	7	14	227.77	243.97	471.74
September, . . . . .	7	13	20	3	6	9	231.2	245.3	476.5
Total of cases, . . . . .	87	79	166	79	75	154	-	-	-
Total of persons, . . . . .	82	76	158	75	75	150	-	-	-
Daily average for the year, . . . . .	-	-	-	-	-	-	225.88	244.37	*†470.25

\* For Table No. 1, see the beginning of the Superintendent's report.

† These totals are obtained by a division of the sums of daily residence for the year by 366, the number of days in the year.

**3. Received on First and Subsequent Admissions.**

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	62	60	122	-	-	-
Second, . . . . .	19	16	35	8	4	12
Third, . . . . .	3	3	6	-	4	4
Fifth, . . . . .	3	-	3	7	-	7
Total of cases, . . . . .	87	79	166	15	8	23
Total of persons, . . . . .	82	76	158	11	6	17



4. *Age of Persons Admitted for the First Time.*

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	1	—	1	—	—	—
Fifteen years and less, . . . . .	1	2	3	1	1	2
From 15 to 20 years, . . . . .	3	3	6	5	4	9
20 to 25 years, . . . . .	5	8	13	3	9	12
25 to 30 years, . . . . .	5	6	11	10	6	16
30 to 35 years, . . . . .	12	9	21	12	7	19
35 to 40 years, . . . . .	9	5	14	9	6	15
40 to 50 years, . . . . .	3	6	9	8	10	18
50 to 60 years, . . . . .	5	6	11	6	6	12
60 to 70 years, . . . . .	2	4	6	5	8	13
70 to 80 years, . . . . .	—	1	1	2	3	5
Over 80 years, . . . . .	—	—	—	1	—	1
Unknown, . . . . .	16	10	26	—	—	—
Total of persons, . . . . .	62	60	122	62	60	122

5. *Parentage of Persons Admitted.*

PLACES OF NATIVITY.	Males.		Females.		Totals.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	2	2	—	—	2	2
New Hampshire, . . . . .	1	1	2	—	3	1
Vermont, . . . . .	5	8	3	3	8	11
Massachusetts, . . . . .	14	21	9	13	23	34
Rhode Island, . . . . .	3	1	—	1	3	2
Connecticut, . . . . .	6	3	1	2	7	5
New York, . . . . .	5	3	5	6	10	9
Ohio, . . . . .	1	1	—	—	1	1
Michigan, . . . . .	1	—	—	—	1	—
Maryland, . . . . .	—	—	—	1	—	1
Canada, . . . . .	5	4	5	6	10	10
England, . . . . .	2	1	3	1	5	2
Ireland, . . . . .	19	19	33	32	52	51
Scotland, . . . . .	2	1	1	1	3	2
Germany, . . . . .	3	3	3	2	6	5
Sweden, . . . . .	—	—	1	1	1	1
Poland, . . . . .	1	1	—	—	1	1
Russia, . . . . .	1	1	—	—	1	1
Unknown, . . . . .	11	12	10	7	21	19
Total of persons, . . . . .	82	82	76	76	158	158

6. *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	12	18	30
Hampden County, . . . . .	35	37	72
Berkshire County, . . . . .	24	16	40
Franklin County, . . . . .	10	5	15
Suffolk County, . . . . .	1	—	1
Total of <i>persons</i> , . . . . .	82	76	158
Cities and large towns, . . . . .	33	33	66
Country districts, . . . . .	49	43	92
Total of <i>persons</i> , . . . . .	82	76	158

7. *Civil Condition of Persons Admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	36	28	64	20	20	40	6	12	18	—	—	—
Second, . . . . .	11	4	15	5	6	11	—	3	3	—	—	—
Third, . . . . .	—	2	2	1	—	1	—	1	1	—	—	—
Fifth, . . . . .	1	—	1	2	—	2	—	—	—	—	—	—
Total of <i>per- sons</i> , . . . . .	48	34	82	28	26	54	6	16	22	—	—	—

## 8. Occupations of Persons Admitted.

MALES.		MALES.	
Blacksmith, . . . .	1	Stone mason, . . . .	1
Brass moulder, . . . .	2	Tailor, . . . .	1
Baggage master, . . . .	1	Upholsterer, . . . .	1
Box maker, . . . .	1	Wool sorter, . . . .	1
Book agent, . . . .	1	Weaver, . . . .	1
Bookkeeper, . . . .	1		—
Bookbinder, . . . .	1	Total of persons, . .	82
Baker, . . . .	1	FEMALES.	
Carpenter, . . . .	2	Blacksmith's wife, . .	1
Cigar maker, . . . .	1	Carpenter's wife, . .	3
Cigar packer, . . . .	1	Conductor's wife, . .	1
Cook, . . . .	1	Domestic, . . . .	17
Druggist, . . . .	1	Dressmaker, . . . .	1
Farmer, . . . .	9	Farmer's wife, . . . .	3
Fishing and hunting, . . . .	1	Housekeeper, . . . .	8
Journalist, . . . .	1	Laborer's wife, . . . .	5
Laborer, . . . .	17	Mill overseer's wife, . .	1
Lawyer, . . . .	1	Mill operative's wife, . .	1
Merchant, . . . .	2	Mill operative, . . . .	7
Machinist, . . . .	1	Machinist's wife, . . . .	1
Mill operative, . . . .	2	None, . . . .	20
None, . . . .	14	Nurse, . . . .	1
Paper maker, . . . .	4	Policeman's wife, . . . .	1
Painter, . . . .	2	Salesman's wife, . . . .	1
Pattern maker, . . . .	1	Straw braider, . . . .	1
Saloon keeper, . . . .	1	Stone cutter's wife, . . . .	1
Silver plater, . . . .	1	Teamster's wife, . . . .	1
Shoemaker, . . . .	2	Teacher, . . . .	1
Soap maker, . . . .	1		—
Sewing-machine agent, . . . .	1	Total of persons, . .	76
Spinner, . . . .	1		

9. *Reported Duration of Insanity before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER AD- MISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	1	—	1	—	—	—	—	—	—
Under 1 month, . . . . .	11	12	23	4	2	6	16	14	30
From 1 to 3 months, . . . . .	13	9	22	2	3	5	15	12	27
3 to 6 months, . . . . .	3	7	10	2	1	3	5	8	13
6 to 12 months, . . . . .	3	4	7	—	1	1	3	5	8
1 to 2 years, . . . . .	7	1	8	1	—	1	8	1	9
2 to 5 years, . . . . .	3	7	10	4	3	7	7	10	17
5 to 10 years, . . . . .	3	4	7	3	2	5	6	6	12
10 to 20 years, . . . . .	—	4	4	2	2	4	2	6	8
Over 20 years, . . . . .	2	1	3	—	1	1	2	2	4
Unknown, . . . . .	16	11	27	7	4	11	23	15	38
Total of cases, . . . . .	62	60	122	25	19	44	87	79	166
Total of persons, . . . . .	62	60	122	20	16	36	82	76	158
Average of known cases, . . . . .	2 $\frac{2}{11}$	3 $\frac{1}{11}$	3 $\frac{1}{2}$	4 $\frac{1}{7}$	4 $\frac{1}{11}$	5 $\frac{1}{11}$	2 $\frac{1}{11}$	3 $\frac{1}{11}$	3 $\frac{1}{11}$

\* In this division of the table the whole period of time, from the first attack to the last admission, is indicated.

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Totals.
Congenital, . . . . .	1	—	1
Epilepsy, . . . . .	3	—	3
General paralysis of the insane, . . . . .	7	—	7
Mania, . . . . .	1	1	2
acute, . . . . .	10	26	36
chronic, . . . . .	22	16	38
recurrent, . . . . .	3	4	7
a potu, . . . . .	5	—	5
senile, . . . . .	3	2	5
Melancholia, . . . . .	—	1	1
acute, . . . . .	—	8	8
recurrent, . . . . .	2	—	2
Dementia, primary, . . . . .	10	11	21
secondary, . . . . .	—	2	2
senile, . . . . .	2	2	4
Delusional, primary, . . . . .	5	2	7
Dipsomania, . . . . .	5	—	5
Kleptomania, . . . . .	1	—	1
Toxic, . . . . .	—	1	1
Inebriate, . . . . .	5	3	8
Not insane, . . . . .	2	—	2
Total of cases, . . . . .	87	79	166
Total of persons, . . . . .	82	76	158

11. *Probable Causes of Insanity in Persons Admitted.*

CAUSES.	Males.	Females.	Totals.
<i>Physical.</i>			
Ill health, . . . . .	4	13	17
Epilepsy, . . . . .	2	2	4
Intemperance, . . . . .	20	4	24
Overwork, . . . . .	3	—	3
Overwork and ill health, . . . . .	—	1	1
Change of life, . . . . .	—	1	1
Opium eating, . . . . .	1	6	7
Morphine taking, . . . . .	—	1	1
Hereditary, . . . . .	5	5	10
Masturbation, . . . . .	9	—	9
Injury of head, . . . . .	2	1	3
Old age, . . . . .	3	3	6
Puerperal, . . . . .	—	1	1
Nervous exhaustion, . . . . .	—	1	1
Sunstroke, . . . . .	2	—	2
Stimulants, . . . . .	—	1	1
Excessive use of tobacco, . . . . .	1	—	1
Overwork and trouble, . . . . .	2	—	2
Syphilis, . . . . .	2	—	2
Congenital, . . . . .	1	—	1
<i>Mental.</i>			
Trouble, . . . . .	4	—	4
Domestic trouble, . . . . .	1	5	6
Loss of friends, . . . . .	—	1	1
Mental shock, . . . . .	—	1	1
Religious excitement, . . . . .	2	3	5
Total of mental, . . . . .	7	10	17
Total of physical, . . . . .	57	40	97
Not insane, . . . . .	2	—	2
Unknown, . . . . .	16	26	42
Total of persons, . . . . .	82	76	158

12. *Relation to Hospital of Persons Admitted.*

HOSPITAL RELATION.	Males.	Females.	Totals.
Never before in any hospital, . . . .	59	56	115
Former inmates of this hospital, . . . .	16	11	27
Former inmates of other hospitals in this State, . . . . .	3	4	7
Former inmates of hospitals in other States,	2	1	3
Former inmates of this hospital and of hospitals in other States, . . . . .	—	—	—
Former inmates of other hospitals in this State, and of hospitals in other States, .	2	2	4
Former inmates of foreign hospitals, . . .	—	1	1
Former inmates of this hospital and of foreign hospitals, . . . . .	—	1	1
Total of <i>persons</i> , . . . . .	82	76	158

## 13. Discharges, Classified by Admission and Result.

ADMISSION.	NOT INSANE.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	2	-	2	19	11	30	2	5	7	22	18	40	9	12	21	13	12	25	67	58	125
Second, . . . . .	-	-	-	3	2	5	1	1	2	2	2	4	3	4	7	1	4	5	10	13	23
Third, . . . . .	-	-	-	-	-	-	-	-	-	-	2	2	-	1	1	-	1	1	-	4	4
Fourth, . . . . .	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1
Fifth, . . . . .	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Total of cases, . . . . .	2	-	2	23	13	36	3	6	9	25	22	47	12	17	29	14	17	31	79	75	154
Total of persons, . . . . .	2	-	2	22	13	35	3	6	9	23	22	45	11	17	28	14	17	31	75	75	150

14. *How Supported.*

SUPPORTED AS	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . .	34	22	56	60.37	51.80	112.17
Town patients, . .	41	46	87	132.88	161.13	294.01
Private patients, . .	12	11	23	32.67	31.34	64.01
Total of cases, . .	87	79	166	225.92	244.27	470.19

15. *Cases Discharged Recovered — Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . .	8	6	14	3	—	3	—	—	—
From 1 to 3 months, . .	3	3	6	12	2	14	5	—	5
3 to 6 months, . .	2	—	2	6	7	13	5	—	5
6 to 12 months, . .	1	1	2	2	1	3	3	6	9
1 to 2 years, . .	1	—	1	—	—	—	—	2	2
2 to 5 years, . .	2	—	2	—	3	3	3	2	5
5 to 10 years, . .	3	2	5	—	—	—	4	2	6
10 to 20 years, . .	—	—	—	—	—	—	—	—	—
Over 20 years, . .	—	—	—	—	—	—	—	—	—
Unknown, . .	3	1	4	—	—	—	3	1	4
Total of cases, . .	23	13	36	23	13	36	23	13	36
Total of persons, . .	22	13	35	22	13	35	22	13	35
Average of known cases (in months), . .	16 $\frac{9}{10}$	12	15 $\frac{1}{18}$	3 $\frac{1}{10}$	12 $\frac{2}{13}$	6 $\frac{5}{8}$	22 $\frac{1}{18}$	22 $\frac{1}{18}$	22 $\frac{1}{18}$



## 16. Cases Resulting in Death. — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	—	2	2	—	3	3	—	1	1
From 1 to 3 months, . . . . .	—	1	1	1	2	3	—	1	1
3 to 6 months, . . . . .	—	2	2	—	1	1	—	1	1
6 to 12 months, . . . . .	2	2	4	—	—	—	—	1	1
1 to 2 years, . . . . .	1	—	1	2	2	4	—	1	1
2 to 5 years, . . . . .	2	5	7	4	6	10	1	1	2
5 to 10 years, . . . . .	—	3	3	1	1	2	2	7	9
10 to 20 years, . . . . .	1	—	1	3	2	5	1	2	3
Over 20 years, . . . . .	3	—	3	3	—	3	6	—	6
Unknown, . . . . .	5	2	7	—	—	—	4	2	6
Totals, . . . . .	14	17	31	14	17	31	14	17	31
Average of known cases (in months), . . . . .	116½	26½	60½	118½	38½	74½	166½	56½	127½

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Epilepsy, . . . . .	—	—	—	3	1	4
Paralysis of the insane, . . . . .	—	—	—	—	1	1
Mania, . . . . .	—	—	—	4	2	6
acute, . . . . .	5	9	14	—	2	2
chronic, . . . . .	—	—	—	—	4	4
recurrent, . . . . .	2	2	4	—	1	1
a potu, . . . . .	2	—	2	—	—	—
Melancholia, acute, . . . . .	—	—	—	1	3	4
recurrent, . . . . .	2	—	2	—	—	—
Dementia, . . . . .	—	—	—	5	—	5
primary, . . . . .	—	1	1	—	1	1
secondary, . . . . .	—	—	—	1	—	1
senile, . . . . .	—	—	—	—	2	2
Toxic, . . . . .	1	—	1	—	—	—
Dipsomania, . . . . .	2	—	2	—	—	—
Inebriate, . . . . .	9	1	10	—	—	—
Totals, . . . . .	23	13	36	14	17	31

*18. Causes of Death.*

CAUSES.	Males.	Females.	Totals.
<b>Nervous system,—</b>			
Chronic brain disease, . . . . .	2	1	3
Exhaustion of chronic mania, . . . . .	1	3	4
Exhaustion of acute melancholia, . . . . .	—	1	1
General paralysis of the insane, . . . . .	1	1	2
Apoplexy, . . . . .	1	3	4
Epilepsy, . . . . .	1	1	2
<b>Respiratory,—</b>			
Phthisis, . . . . .	3	4	7
<b>General,—</b>			
Bright's disease, . . . . .	2	—	2
Diabetes, . . . . .	—	1	1
Fracture of the skull, . . . . .	1	—	1
Heart disease, . . . . .	1	—	1
Heart failure, . . . . .	—	1	1
Old age, . . . . .	1	1	2
<b>Totals, . . . . .</b>	<b>14</b>	<b>17</b>	<b>31</b>

## 19. Deaths, Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.
	Females.			Females.			Females.			Females.			Females.		
Second, . . . .	-	1	1	-	1	1	-	1	1	-	1	1	1	3	4
Third, . . . .	-	-	-	-	-	-	-	1	1	-	1	1	1	1	2
Totals, . . . .	-	1	1	-	1	1	-	2	2	-	2	2	2	4	6

## 20. Recoveries, Classified by Results of Previous Admissions.\*

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.	Males.		Totals.
	Females.			Females.			Females.			Females.			Females.		
Second, . . . .	2	2	4	-	-	-	1	-	1	-	-	-	3	2	5
Fourth, . . . .	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Totals, . . . .	3	2	5	-	-	-	1	-	1	-	-	-	4	2	6

\* In all cases of more than one admission the classification is based upon the result of the admission next preceding the last in each case respectively.

21. *Deaths, Classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY "FROM FIRST ATTACK."			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Under 1 month, . . . . .	—	1	1	—	3	3
From 1 to 3 months, . . . . .	—	1	1	1	1	2
3 to 6 months, . . . . .	—	1	1	—	2	2
6 to 12 months, . . . . .	—	—	—	—	—	—
1 to 2 years, . . . . .	—	2	2	2	1	3
2 to 5 years, . . . . .	1	1	2	4	6	10
5 to 10 years, . . . . .	1	3	4	1	1	2
10 to 20 years, . . . . .	2	2	4	5	3	8
Over 20 years, . . . . .	5	1	6	1	—	1
Unknown, . . . . .	5	5	10	—	—	—
Totals, . . . . .	14	17	31	14	17	31
Average of known cases (in months), . . . . .	228 $\frac{1}{2}$	74 $\frac{1}{2}$	140 $\frac{1}{2}$	121 $\frac{3}{4}$	70 $\frac{1}{4}$	93 $\frac{1}{2}$

22. *Ages of Those who Died.*

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteen years and less, . . . . .	2	1	3	—	—	—
From 15 to 20 years, . . . . .	—	—	—	—	—	—
20 to 25 years, . . . . .	2	1	3	—	1	1
25 to 30 years, . . . . .	1	1	2	1	—	1
30 to 35 years, . . . . .	—	1	1	1	1	2
35 to 40 years, . . . . .	1	1	2	—	2	2
40 to 50 years, . . . . .	3	4	7	3	3	6
50 to 60 years, . . . . .	1	—	1	4	2	6
60 to 70 years, . . . . .	1	6	7	3	5	8
70 to 80 years, . . . . .	1	1	2	—	2	2
Over 80 years, . . . . .	—	—	—	1	1	2
Unknown, . . . . .	2	1	3	1	—	1
Totals, . . . . .	14	17	31	14	17	31

*23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1888.*

YEARS.	NEW CASES (FIRST ADMISSION).														
	ADMITTED.			DISCHARGED AND DIED IN 1887-88.											
				RECOVERED.			MUCH IMPROVED.			IMPROVED.		UNIMPROVED.		DIED.	
Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	
1858, 2 months,	99	129	228												
1858-59, .	42	46	88												
1859-60, .	66	91	157												
1860-61, .	58	46	104												
1861-62, .	51	43	94												
1862-63, .	56	57	113												
1863-64, .	35	30	65												
1864-65, .	54	55	109												
1865-66, .	66	52	118												
1866-67, .	42	69	111												
1867-68, .	54	71	125												
1868-69, .	72	64	136												
1869-70, .	80	103	183												
1870-71, .	93	88	181												
1871-72, .	83	85	168												
1872-73, .	89	69	158												

	1,921	1,903	3,774	19	9	28	2	5	7	22	17	29	10	14	24	12	12	24
1873-74, . . .	86	69	155	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1874-75, . . .	61	62	123	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1875-76, . . .	63	63	126	-	-	-	-	-	-	1	-	1	-	-	-	1	1	1
1876-77, . . .	55	55	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1877-78, . . .	31	24	55	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-
1878-79, . . .	49	34	83	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
1879-80, . . .	50	47	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1880-81, . . .	48	49	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1881-82, . . .	50	52	102	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
1882-83, . . .	65	52	117	-	-	-	-	-	-	1	1	3	-	-	-	1	1	2
1883-84, . . .	37	58	95	-	-	-	-	-	-	2	1	2	-	-	-	1	1	1
1884-85, . . .	53	46	99	-	-	-	-	-	-	2	2	2	-	-	-	1	2	2
1885-86, . . .	63	73	136	-	1	-	-	-	-	3	2	4	-	1	1	2	1	3
1886-87, . . .	58	61	119	9	6	15	1	2	3	9	6	15	4	5	9	3	3	3
1887-88, . . .	62	60	122	10	2	12	1	1	2	4	4	8	6	2	8	1	3	4
Totals, . . .	1,921	1,903	3,774	19	9	28	2	5	7	22	17	29	10	14	24	12	12	24



[illegible]







## 25. Operations of the Hospital, from the beginning, in each Year.

	1858.	1858-59.	1859-60.	1860-61.	1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	
Admitted.	Males.	99	45	73	70	64	69	48	70	75	61	68	84	90	109	101	102	105	75	76	68	40	63	59	57	62	78	61	66	85	72	87
	Females.	129	48	94	52	48	68	45	64	61	77	84	85	112	102	98	79	88	78	77	71	36	43	58	66	62	69	75	70	98	76	79
	Totals.	228	93	167	122	112	137	93	134	136	138	152	169	202	211	199	181	193	153	153	139	76	106	117	123	124	147	136	136	183	148	166
Recovered.	Males.	-	18	-	-	19	-	30	17	15	22	19	31	23	16	25	19	25	16	19	15	7	13	16	7	13	11	9	17	10	16	23
	Females.	-	15	-	-	15	-	18	16	9	19	17	18	27	27	15	29	12	13	13	18	19	13	12	13	15	17	16	12	19	8	13
	Totals.	-	33	33	35	34	28	48	33	24	41	36	49	50	43	40	48	37	29	32	33	26	26	28	20	28	25	23	29	24	36	36
Much Improved.	Males.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	4	9	6	4	8	5	3
	Females.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	9	11	5	2	3	6	
	Totals.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	13	13	9	17	9	10	8	9
Improved.	Males.	4	9	-	-	25	-	20	14	13	18	20	23	15	23	23	37	24	21	18	8	17	15	11	15	7	18	16	12	23	36	25
	Females.	-	9	-	-	15	-	18	13	7	15	28	28	43	41	27	22	19	24	31	13	27	13	12	15	14	15	19	17	36	31	22
	Totals.	4	18	18	26	40	25	38	27	20	33	48	51	58	64	60	59	43	45	49	21	44	28	23	30	21	33	35	29	59	67	47
Unimproved.	Males.	2	6	-	-	9	-	4	8	5	5	9	20	22	31	22	23	27	17	24	15	16	11	9	6	14	21	16	10	20	21	12
	Females.	2	4	-	-	4	-	5	7	3	4	8	43	34	30	27	29	18	21	23	17	13	3	10	10	13	14	20	16	23	16	17
	Totals.	4	10	4	10	13	7	9	15	8	9	17	63	56	61	49	52	45	38	47	32	29	14	19	16	27	35	36	26	43	37	29

DISCHARGED.



26. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.24
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	55.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	241.93	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84
1885-86, . . . .	140.23	270.52	63.61	474.36
1886-87, . . . .	122.78	289.38	66.00	476.16
1887-88, . . . .	112.17	294.01	64.01	470.19

27. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1887.</b>		
October, . . . . .	43,200	1,393.55
November, . . . . .	51,250	1,708.33
December, . . . . .	66,952	2,159.74
<b>1888.</b>		
January, . . . . .	65,250	2,104.84
February, . . . . .	51,200	1,765.51
March, . . . . .	44,750	1,443.54
April, . . . . .	33,350	1,111.66
May, . . . . .	23,550	759.67
June, . . . . .	17,700	590.00
July, . . . . .	17,850	575.80
August, . . . . .	24,180	780.00
September, . . . . .	36,650	1,221.66
Totals, . . . . .	475,882	15,614.30

## 28. Supplies for the Several Departments for the Year 1887-88.

	Sheets.	Pillow-cases.	Bed-spreads.	Blankets.	Bed-ticks.	Pillow-ticks.	Towels.	Curtains.	Wash-bowls.	Kewers.	Chambers.	Mirrors.	Hair Brushes.	Combs.	(Carpet Strips.	Plates.	Cups.	Saucers.	Tumblers.	Mugs.	Bowls.	Pitchers.	Byrrup Cups.	Knives.	Forks.	Lanterns.	Scales.
<i>Men's Department.</i>																											
Upper 1st Hall, . . .	14	14	5	-	10	-	22	14	1	2	11	2	2	-	2	12	12	18	48	-	13	2	-	-	4	-	-
2d Hall, . . .	32	44	6	11	-	-	14	-	-	-	10	1	2	2	2	6	6	18	-	-	6	-	-	-	-	-	-
3d and 4th Halls, . .	16	24	-	-	4	-	6	-	-	-	41	-	2	2	2	6	6	18	-	-	4	-	-	-	-	-	-
Middle 1st Hall, . . .	30	30	2	-	1	-	16	-	-	1	2	2	1	5	1	12	24	30	3	6	-	2	-	6	15	-	1
2d Hall, . . .	12	30	2	6	-	-	-	-	-	-	18	1	1	6	-	24	30	6	-	-	3	-	1	-	-	-	-
3d and 4th Halls, . .	36	48	-	-	-	-	6	-	-	-	36	1	1	-	-	6	-	-	-	36	3	-	-	-	-	-	-
Lower 1st Hall, . . .	36	52	-	-	4	-	8	10	-	-	27	-	-	2	-	6	-	-	-	-	-	1	-	-	-	-	1
2d Hall, . . .	42	42	-	-	-	-	-	-	-	-	6	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	1
3d and 4th Halls, . .	28	24	-	6	-	-	-	-	-	-	18	-	2	2	-	3	-	-	-	-	2	-	-	-	-	-	2
<i>Women's Department.</i>																											
Upper 1st Hall, . . .	-	12	6	3	5	3	6	-	-	1	6	-	-	11	6	-	12	18	6	-	-	1	2	-	-	-	1
2d Hall, . . .	24	48	6	7	-	-	9	6	-	2	10	-	-	6	-	30	12	18	42	-	13	7	-	-	-	-	1
3d Hall, . . .	24	24	2	12	-	-	36	-	-	-	3	-	1	6	-	6	12	6	18	-	12	4	-	-	-	-	-
4th Hall, . . .	36	24	6	14	2	-	-	-	1	2	6	1	-	9	-	18	6	24	24	-	12	1	2	-	6	-	-
Middle 1st Hall, . . .	36	12	-	13	4	7	42	4	3	1	24	1	-	35	10	36	24	48	30	12	12	2	-	-	-	-	-
2d Hall, . . .	54	36	12	13	4	7	42	-	-	1	12	2	-	30	-	12	12	12	18	30	6	2	-	-	-	-	-
3d Hall, . . .	24	48	6	6	-	-	66	6	-	-	1	-	1	8	-	18	-	18	18	18	18	2	-	-	-	-	1
4th Hall, . . .	12	12	4	6	1	3	30	11	-	1	6	1	1	27	18	12	-	12	18	18	-	2	1	-	6	-	-
Lower 1st Hall, . . .	4	24	4	6	6	2	30	4	-	-	18	-	-	18	3	-	-	-	12	-	18	2	1	-	-	-	-
2d Hall, . . .	44	54	4	36	6	2	30	-	-	-	8	-	-	26	-	6	-	-	-	-	-	-	-	-	-	-	-
3d Hall, . . .	40	36	10	25	2	2	6	-	-	-	18	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
4th Hall, . . .	12	12	-	-	1	-	-	4	-	-	3	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-
Kitchen, . . .	-	-	-	-	4	-	2	-	-	-	2	4	2	1	9	60	30	30	54	-	51	8	-	-	8	31	1
Rear, . . .	-	30	5	-	2	-	43	6	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Centre, . . .	2	10	-	2	-	-	22	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
Aggregates, . . .	588	697	76	163	42	27	479	65	8	11	283	15	13	201	38	566	135	276	273	108	135	39	6	15	62	8	2

28. Supplies for the Several Departments for the Year 1887-88 — Concluded.

	Clothes-bags.	Spoons.	Glass (cassets).	Table-spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Hollers.	Wash-basins.	Brooms.	Soap, pounds.	Whisks.	Dust-brushes.	Scrub-brushes.	Dust-pans.	Mops.	Falls.	Spittoons.	Blacking.	Shoe-brushes.	Spools Thread.	Tapers Needles.	Papers Pins.	Rubber Chambers.	
<b>Men's Department.</b>																											
Upper 1st Hall,	1	18	—	2	6	—	—	—	6	6	—	13	40	3	2	1	—	—	—	—	4	—	—	1	—	—	
2d Hall,	—	—	—	—	6	—	—	—	18	6	—	18	44	1	2	1	—	—	—	—	3	—	—	—	—	—	
3d and 4th Halls,	—	—	—	—	6	—	—	—	6	12	—	11	78	2	1	—	—	—	—	—	5	—	—	—	—	—	
Middle 1st Hall,	—	—	—	—	—	—	—	—	—	—	—	17	46	2	1	—	—	—	—	—	10	—	—	—	—	—	
2d Hall,	—	—	—	—	—	—	—	—	—	—	—	23	54	2	3	—	—	—	—	—	11	—	—	—	—	—	
3d and 4th Halls,	—	18	—	—	12	48	6	—	6	12	—	11	84	—	1	3	2	2	2	3	11	—	—	—	—	—	
Lower 1st Hall,	—	—	—	—	—	—	—	—	—	—	—	29	90	1	1	1	—	—	—	—	6	—	—	—	—	—	
2d Hall,	—	12	—	—	12	12	—	—	12	12	—	29	90	1	1	1	—	—	—	—	6	—	—	—	—	—	
3d and 4th Halls,	—	6	—	—	—	24	—	—	12	24	1	18	62	1	1	1	—	—	—	—	7	—	—	—	—	—	
<b>Women's Department.</b>																											
Upper 1st Hall,	2	—	—	2	12	—	—	—	18	—	—	9	28	1	—	—	—	—	—	—	—	—	4	—	2	—	
2d Hall,	—	24	—	—	—	—	—	—	—	—	—	21	62	2	—	—	2	3	2	2	—	—	6	—	5	—	
3d Hall,	2	—	—	—	—	—	—	—	—	—	—	11	50	—	—	—	1	6	2	—	—	—	7	—	7	—	
4th Hall,	—	12	—	—	—	—	6	12	—	—	—	4	66	—	1	1	1	3	2	—	—	—	9	—	12	—	
Middle 1st Hall,	1	—	—	2	—	—	—	—	18	—	—	10	48	1	1	—	1	1	—	—	—	—	—	2	—	3	
2d Hall,	2	18	—	3	—	—	6	24	6	—	2	32	92	1	3	—	1	8	6	—	—	—	22	—	12	—	
3d Hall,	1	—	—	—	—	—	24	24	—	—	1	20	98	2	—	—	2	11	4	—	—	—	28	—	21	—	
4th Hall,	—	12	—	—	—	—	12	24	6	—	—	20	46	—	—	2	2	1	4	—	—	—	9	—	10	—	
Lower 1st Hall,	—	—	—	—	—	—	—	—	—	—	1	16	50	—	—	1	1	1	1	—	—	—	14	—	3	—	
2d Hall,	2	12	—	5	—	—	6	24	6	—	—	30	92	—	—	1	7	4	—	—	—	—	11	—	21	—	
3d Hall,	5	—	—	—	—	—	12	12	—	—	—	22	74	—	—	2	6	3	3	—	—	—	33	—	14	—	
4th Hall,	—	—	—	3	—	—	18	—	—	—	—	4	22	—	—	—	1	2	2	—	—	—	17	—	5	—	
Kitchen,	—	—	—	—	—	—	—	—	18	12	—	61	78	2	5	—	1	1	5	—	—	—	—	—	13	—	
Rear,	3	—	—	3	—	—	18	—	—	—	—	94	160	2	2	1	1	1	6	—	—	—	—	—	—	—	
Centre,	—	—	—	1	—	—	—	—	18	—	—	8	72	4	2	1	—	1	6	—	2	—	—	—	2	—	
Aggregates,	19	144	—	21	18	72	90	120	176	148	7	516	1,554	26	24	20	12	66	57	6	61	6	170	36	132	—	

*29. Day's Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1887.</b>								
October, .	776	155	184	339	189	47	341	388
November, .	689	150	177	327	203	48	300	348
December, .	618	155	193	348	251	48	367	415
<b>1888.</b>								
January, .	569	155	180	335	264	50	372	422
February, .	522	145	168	313	239	49	351	400
March, .	549	155	172	327	254	45	377	422
April, .	549	150	159	309	247	45	298	343
May, .	698	155	180	335	222	50	339	389
June, .	776	150	182	332	232	51	323	374
July, .	736	155	184	339	248	52	360	412
August, .	763	155	209	364	253	54	404	458
September, .	672	150	195	345	252	37	347	384
Totals, .	7,917	1,830	2,183	4,013	2,854	576	4,179	4,755

The patients whose work is recorded in this table were employed as many hours in the day as were the employees in each of the several departments, respectively. The total number of days' work is 19,539, to which may be added 454 days by men in the mattress room, making an aggregate of 19,993 days.

No record was kept of the time of work on the ornamental grounds, at the stable, in the bakery, the boiler-room and the carpenter's shop. A large amount of other work was done both in the halls and at irregular times out of them.



*30. List of Articles made in the Sewing-Room.*

Dresses, . . . . .	247	Napkins hemmed, . . . . .	24
Waists, . . . . .	22	Curtains, . . . . .	103
Chemises, . . . . .	52	Sheets, . . . . .	513
Drawers, . . . . .	64	Pillow-cases, . . . . .	120
Skirts, . . . . .	102	Spreads, . . . . .	70
Night-dresses, . . . . .	17	Bed-ticks, . . . . .	47
Burial robes, . . . . .	6	Bolster-cases, . . . . .	7
Hats trimmed, . . . . .	23	Cushions, . . . . .	45
Caps, . . . . .	211	Clothes-bags, . . . . .	18
Aprons, . . . . .	159	Bureau-covers, . . . . .	65
Collars, . . . . .	254	Dish-towels, . . . . .	159
Shirts, . . . . .	73	Roller-towels, . . . . .	245
Camisoles, . . . . .	8	Carpets made, . . . . .	3
Suspenders, pairs, . . . . .	53	Carpet-strips hemmed, . . . . .	29
Table-cloths, . . . . .	16	Articles repaired, . . . . .	21,248

*31. Upholstery Done in the Year.*

Hair mattresses made, new materials, . . . . .	21
Hair mattresses overhauled, hair repicked, . . . . .	107
Old underbeds filled with new husks, . . . . .	105
Hair pillows overhauled, hair repicked, . . . . .	87
Cushions made, new material, . . . . .	45

32. *Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	945 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.4	1 86
1886-87, . . . . .	854 97	478.54	*1 79
1887-88, . . . . .	901 74	470.25	1 91

33. *Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From what cause.
Charles E. Forbes,*	Northampton, . .	1856	1857	Term expired.
Lucien C. Boynton,*	Uxbridge, . . .	1856	1858	" "
Eliphalet Trask, . .	Springfield, . .	1856	1875	" "
John C. Russell,* . .	Great Barrington, .	1856	1859	Resigned.
Horace Lyman, . . .	Greenfield, . . .	1856	1857	Removed.
Charles Smith, . . .	Northampton, . .	1857	1860	Resigned.
Luther V. Bell,* . . .	Somerville, . . .	1857	1859	"
Zebina L. Raymond,* .	Greenfield, . . .	1858	1859	"
Franklin Ripley,* . .	Greenfield, . . .	1859	1860	Died in office.
Edward Dickinson,* .	Amherst, . . . .	1859	1864	Resigned.
Walter Lafin,* . . .	Pittsfield, . . . .	1859	1866	Term expired.
Silas M. Smith,* . . .	Northampton, . .	1860	1863	" "
Charles Allen, . . .	Greenfield, . . .	1860	1861	Resigned.
Alfred R. Field,* . . .	Greenfield, . . .	1861	1864	"
Edward Hitchcock, . .	Amherst, . . . .	1863	1879	"
Silas M. Smith,* . . .	Northampton, . .	1864	1887	Died in office.
Edmund H. Sawyer,* .	Easthampton, . .	1864	1879	" "
Henry L. Sabin,* . . .	Williamstown, . .	1866	1876	Term expired.
Adams C. Deane, . . .	Greenfield, . . .	1875	-	Still in office.
Henry W. Taft, . . .	Pittsfield, . . . .	1876	-	" "
William M. Gaylord, . .	Northampton, . .	1879	1883	Term expired.
Lyman D. James, . . .	Williamsburg, . .	1879	-	Still in office
Christopher Merritt, . .	Springfield, . . .	1883	1888	Term expired.
Sarah A. Woodworth, .	Chicopee, . . . .	1884	-	Still in office.
Sarah M. Butler, . . .	Northampton, . .	1884	-	" "
John L. Otis, . . . .	Florence, . . . .	1887	-	" "
N. A. Leonard, . . . .	Springfield, . . .	1888	-	" "

\* Deceased.

*34. Officers and Employees.*

Time employed, Oct. 1, 1888.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M.D., Superintendent,	19	9	16
Edward B. Lane, M.D., 1st Assistant Physician,	—	7	1
David G. Hall, M.D., 2d Assistant Physician,	5	3	20
Emily F. Wells, M.D., 3d Assistant Physician,	3	9	—
Walter B. Welton, Clerk,	22	7	16
John Mercier, Farmer,	21	2	—
Danford Morse, Engineer,	23	6	9
Robert H. Gallivan, Supervisor,	15	5	13
Lucy A. Gilbert, Supervisor,	21	7	20
F. Josephus Rice, Steward,	29	11	26
Susan A. Miller, Seamstress,	1	2	17
Nettie Lyman, Laundress,	1	2	7
George B. Walker, Baker,	4	3	22
Gertrude C. Arnold, Assistant Clerk,	4	8	27
Lucie L. Barrett, Assistant Supervisor,	2	—	12
Minnie A. Smith, Assistant Seamstress,	—	8	27
Jennie B. Morse, Assistant Laundress,	1	9	27
Mary Meagher, Assistant Laundress,	2	4	21
Henry W. Esty, Attendant,	6	6	7
William J. Douglass, Attendant,	6	6	5
John L. Howard, Attendant,	6	3	25
James M. Shipperly, Attendant,	3	8	1
Thomas Lavelle, Attendant,	2	6	23
Anson T. Hale, Attendant,	1	5	—
Allen Coit, Attendant,	—	11	20
Martin S. Hardiman, Attendant,	—	10	1
Fred. A. Shumway, Attendant,	—	5	25
Michael Brown, Attendant,	—	5	—
James Swift, Attendant,	—	5	12
Frederick P. Crosby, Attendant,	—	2	25
William T. Shipperly, Attendant,	—	2	16
Maria E. Graves, Attendant,	20	8	9
Jane McGuire, Attendant,	13	5	5
Cecile Reil, Attendant,	11	11	25
Frances F. Poor, Attendant,	9	11	15
Flora R. Brown, Attendant,	5	9	25
Jeanette McLean, Attendant,	5	1	3
Nellie D. Parker, Attendant,	4	6	17
Philomene Goyette, Attendant,	5	6	13
Nellie E. Stearns, Attendant,	3	3	2
Effie Clapp, Attendant,	2	3	17
Elizabeth M. Pomeroy, Attendant,	2	2	5
Julia Webber, Attendant,	—	11	18
Alice A. Hawkes, Attendant,	—	9	27
Celeste Goyette, Attendant,	3	6	16
Harriet Strong, Attendant,	1	6	13
Adeline Morgan, Attendant,	—	—	12
Jessie A. Rand, Night Watch,	7	3	11
Lena Marble, Farmers' Dining Room,	3	2	7

34. *Officers and Employees* — Concluded.

NAMES.	Years.	Months.	Days.
Hattie Darling, Centre, . . . . .	1	10	—
Sophia Vidimier, Centre, . . . . .	—	8	28
Mary E. McClellan, Centre, . . . . .	—	2	12
Ida D. Hyde, Centre, . . . . .	3	4	6
Lillian M. Douglass, Cook, . . . . .	6	11	22
Jeanette Loomis, Assistant Cook, . . . . .	1	1	15
Bridget O'Sullivan, Assistant Cook, . . . . .	—	2	5
Mary Manges, Assistant Cook, . . . . .	—	2	5
Mary A. Carnes, Rear, . . . . .	5	3	—
William C. Hall, Assistant Engineer, . . . . .	23	—	20
Nicholas Reil, Night Engineer, . . . . .	12	9	25
Robert McNaughton, Watchman, . . . . .	1	2	30
Sifroi Belville, Carpenter, . . . . .	18	5	7
Walter Tower, Carpenter, . . . . .	11	10	—
Alfred Parenteau, Painter, . . . . .	23	1	18
David Mercier, Coachman, . . . . .	11	7	14
Benjamin Rockwell, Assistant Farmer, . . . . .	21	4	—
Henry Wilson, Assistant Farmer, . . . . .	9	5	8
James Madden, Assistant Farmer, . . . . .	13	—	29
Eugene Sullivan, Assistant Farmer, . . . . .	13	5	—
George E. Hunter, Assistant Farmer, . . . . .	2	5	19
William Ahearn, Assistant Farmer, . . . . .	—	5	5
Loren Tower, Car Boy, . . . . .	3	—	18
William Noble, Assistant Baker, . . . . .	—	4	7

**THIRTY-FOURTH ANNUAL REPORT**

**OF**

**THE TRUSTEES**

**OF THE**

**NORTHAMPTON LUNATIC HOSPITAL,**

**FOR THE**

**YEAR ENDING SEPTEMBER 30, 1889.**

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**BOSTON :**  
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**1890.**



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# OFFICERS

## OF THE

### NORTHAMPTON LUNATIC HOSPITAL.

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#### TRUSTEES.

Mrs. SARAH A. WOODWORTH, . . . . .	CHICOPEN.
Mrs. SARAH M. BUTLER, . . . . .	NORTHAMPTON.
ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.
HENRY W. TAFT, Esq., . . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG.
NEHEMIAH A. LEONARD, Esq., . . . . .	SPRINGFIELD.
Hon. JOHN L. OTIS, . . . . .	NORTHAMPTON.

#### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D., . . . . .	<i>Superintendent.</i>
JOHN A. HOUSTON, M.D., . . . . .	<i>Assistant Physician.</i>
CHARLES M. HOLMES, M.D., . . . . .	<i>Assistant Physician.</i>
EMILY F. WELLS, M.D., . . . . .	<i>Female Physician.</i>
WALTER B. WELTON, . . . . .	<i>Clerk.</i>
JOHN MERCIER, . . . . .	<i>Farmer.</i>
DANFORD MORSE, . . . . .	<i>Engineer.</i>

#### TREASURER.

EDWARD B. NIMS, . . . . .	NORTHAMPTON.
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Office at the Hospital.

#### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	<i>Male Supervisor.</i>
LUCY A. GILBERT, . . . . .	<i>Female Supervisor.</i>
F. JOSEPHUS RICE, . . . . .	<i>Steward.</i>
MINNIE A. SMITH, . . . . .	<i>Seamstress.</i>
LIZZIE E. RICE, . . . . .	<i>Laundress.</i>
GEORGE B. WALKER, . . . . .	<i>Baker.</i>



# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The thirty-fourth report of the trustees of the Northampton Lunatic Hospital for the year 1888-89 gives the changes in population and the principal improvements for the year. The reports of the treasurer and superintendent are also submitted.

The number of patients in the hospital Sept. 30, 1888, was 481: men, 232; women, 249. The number admitted within the year was 155: men, 98; women, 57. Of these, 60 were supported by the State, 72 by towns, and 23 by individuals. The number under treatment in the year was 636: men, 330; women, 306. The number discharged was 190: men, 113; women, 77; including 25 deaths. The number remaining at the end of the year was 446: men, 217; women, 229. The average daily number was 469.1: men, 231.4; women, 237.7. Forty-two patients were discharged as recovered, including 5 inebriates; 12 as much improved, 65 as improved, 43 as unimproved, 3 as not insane. Twenty patients were transferred to the Worcester Insane Asylum; 19 were boarded out in families by the State Board of Lunacy and Charity. The decrease in the number of patients in the hospital is thus accounted for. Fifty patients remain in the hospital who were formerly transferred from hospitals in the eastern part of the State; at the beginning of the year the number of this class of patients was 80. Three patients were admitted within the year from the east-

ern part of the State. These facts prove conclusively that the admissions from the four western counties will hereafter keep the hospital filled to its capacity, and that soon additional accommodations must be furnished, or relief in some direction. The accumulation of chronic cases in the hospital, and the increase of population in Western Massachusetts, will make such a step necessary. The change of the status of patients is also noticeable. Of the 442 patients remaining in the hospital Sept. 30, 1879, 202 were supported by the State, 184 by cities and towns, and 56 by individuals. Of the 446 patients remaining Sept. 30, 1889, 91 were supported by the State, 294 by cities and towns, and 61 by individuals.

The improvements which have been made within the year are not extensive, yet have their various values. A section of the grounds in front of the south wing, which had been for years in a swampy condition, was drained. The iron fence which extends along the street front was carried to the eastern boundary of the premises on Mill River, this extension being about ninety-five feet in length. A section of the fence eight hundred feet in length was rebuilt, and an eighteen-inch brick drain constructed along the same section. Two hundred feet of the main drain which carries the sewage away from the hospital was rebuilt. The improvements of the lands in the western part of the farm have been continued, in the construction of drains and the removal of a large number of bowlders.

Inside the main building some changes have been made. The shafts which carry the elevators to the dining rooms, seven in number, have been lined with tin, as a protection against fire. The floors in several halls and many rooms have been relaid. The ceilings in some of the halls have been renewed. One hundred iron bedsteads were placed in the rooms, also two hundred and twenty-five woven wire mattresses, thirty large black-walnut settees, and a considerable amount of smaller furniture.

The area of the farm has been increased by the purchase of a pasture containing ninety-two acres of land, lying adjacent to the hospital grounds on the south-west side. This land formerly belonged to the Day Brothers' estate. The

acquisition of this land gives the hospital an excellent site for the erection of an annex, or cottages. The area of the farm is now four hundred and eighty-seven acres. It may seem to some that this enlargement of the premises of the institution was unnecessary; yet experience has shown that a liberal area of grounds about a hospital of this character has decided advantages. The hospital contains a community of persons larger in number than many townships. The buildings, with the surrounding grounds, become the temporary home of the patients; the place for work, for recreation, and exercise. They are practically restricted within these boundaries; they cannot go outside to any great extent without encroaching upon the premises and rights of others. The course which is being pursued by the hospitals for the insane which are in process of construction in New England and New York, shows their appreciation of this fact; some in procuring spacious grounds and premises, while others are taking steps to remove their institutions from the city to the country. The superintendent of one of the leading hospitals in the country, in writing upon this subject, says that every hospital for the insane should have at least an acre of land to each patient.

The hospital has received for the support of city, town and State patients, \$3.25 per week. The average cost per week per patient has been \$3.4715.

The treasurer's report, giving the receipts and disbursements of money for the year, is herewith appended. The accounts of the hospital have been audited and approved. The financial condition of the hospital is good, and gives evidence that the affairs have been wisely managed. The money received for the board of patients during the year is as follows:—

For State patients,	.	.	.	.	.	\$17,749 06
town patients,	.	.	.	.	.	51,223 58
private patients,	.	.	.	.	.	16,565 64
						<hr/>
Total,	.	.	.	.	.	\$85,538 28

In addition to the money surplus on hand, there is a liberal amount of purchased supplies, and products of the farm.

Dr. David G. Hall, after a service of six years as second assistant physician, resigned, and has entered upon private practice. Dr. Edward B. Lane resigned the office of first assistant physician, after serving a year and a half, to accept the position of resident physician at the Dorchester Asylum. Dr. Charles M. Holmes, a recent graduate of the Dartmouth Medical College, has been appointed second assistant physician. Dr. J. A. Houston, who has served as assistant physician for seven years in the Worcester Lunatic Hospital, was appointed first assistant physician, entering upon his duties September 23.

It is perhaps a noteworthy fact, that, of the officers and employees who were connected with the hospital at the end of the year, thirty-two held their positions when the present superintendent entered upon his office, four years since.

The meetings of the Board have been held monthly, at which a careful investigation of the condition and affairs of the hospital has been made, as well as at occasional visits by members of the Board.

SARAH A. WOODWORTH,  
SARAH M. BUTLER,  
A. C. DEANE,  
HENRY W. TAFT,  
LYMAN D. JAMES,  
N. A. LEONARD,  
JOHN L. OTIS,

*Trustees.*

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1889.

---

Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, first, . . . . .	" 1,200 00
Assistant physician, second, . . . . .	" 500 00
Female physician, . . . . .	" 900 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 20 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 15 00
Laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 18 00
Assistant laundress, . . . . .	" 16 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 58 33
Assistant steward, . . . . .	" 35 00
Attendants (male, 4), . . . . .	" 30 00
Attendants (male, 3), . . . . .	" 25 00
Attendants (male, 3), . . . . .	" 23 00
Attendants (male, 3), . . . . .	" 21 00
Attendant (female), . . . . .	" 20 00
Attendants (female, 10), . . . . .	" 18 00
Attendants (female, 2), . . . . .	" 16 00
Attendant (female), . . . . .	" 15 00
Attendant (female), . . . . .	" 14 00
Night watch (female), . . . . .	" 18 00
Housework, centre (female), . . . . .	" 17 00
Housework, centre (female), . . . . .	" 16 00
Housework, centre (female), . . . . .	" 15 00



# 12      NORTHAMPTON LUNATIC HOSPITAL.      [Oct.

Cook (female), . . . . .	per month,	\$16 00
Assistant cook (male), . . . . .	"	16 00
Assistant baker (male), . . . . .	"	25 00
Assistant cooks (female, 2), . . . . .	"	15 00
Assistant cook (female), . . . . .	"	14 00
Farmer's dining room (female), . . . . .	"	14 00
Housework, rear building (female), . . . . .	"	10 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Assistant engineer, . . . . .	"	32 00
Night engineer, and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	28 00
Farm hand, . . . . .	"	30 00
Farm hands (3), . . . . .	"	28 00
Farm hand, . . . . .	"	26 00
Farm hands (3), . . . . .	"	25 00
Farm hand, . . . . .	"	23 00
Farm hand, . . . . .	"	20 00

In the warm season we generally hire some farm hands by the day. This year we had four at \$1.50 per day, without board.

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1889.

---

Live stock on hand, . . . . .	\$6,093 00
Produce of farm on hand, . . . . .	9,237 26
Carriages and agricultural implements, . . . . .	3,022 00
Machinery and mechanical fixtures, . . . . .	6,340 00
Beds and bedding in inmates' department, . . . . .	12,988 00
Other furniture in inmates' department, . . . . .	7,400 00
Personal property of State in superintendent's department,* . . . . .	9,000 00
Ready-made clothing, . . . . .	3,257 52
Dry goods, . . . . .	3,442 48
Provisions and groceries, . . . . .	5,379 00
Drugs and medicine, . . . . .	600 00
Fuel, . . . . .	6,289 47
Library, . . . . .	1,000 00
Paints and oils, . . . . .	450 00
Total, . . . . .	<u>\$74,498 73</u>

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing room and other apartments.

## TREASURER'S REPORT.

---

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as treasurer of the hospital, for the fiscal year ending with the 30th of September, 1889. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

### ASSETS.

Four hundred and eighty-seven acres of land, . . . . .	\$50,106 60
Hospital building, . . . . .	250,000 00
Farm house, \$1,900; brick house, \$1,900, . . . . .	3,800 00
Three dwellings (H. Day lot), . . . . .	1,500 00
Storehouse and shops, . . . . .	15,000 00
Two barns, . . . . .	5,250 00
Horse stable, . . . . .	1,800 00
Scullery and wood house, . . . . .	650 00
Lumber house, . . . . .	1,000 00
Pump house, . . . . .	900 00
Cart shed, . . . . .	450 00
Coal house, . . . . .	125 00
Piggery, . . . . .	3,000 00
Cattle shed, . . . . .	1,200 00
Fire proofs for oils and paints, . . . . .	500 00
Two ice houses, . . . . .	450 00
Total, . . . . .	<hr style="width: 100%;"/> \$335,731 60

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the trustees' report, . . . . .	\$74,498 73
------------------------------------------------------------------------------------------	-------------

## RECEIPTS.

Cash on hand Sept. 30, 1888,		\$10,851 33
Received from the State treasurer,	\$18,931 58	
from towns,	50,494 63	
from individuals,	17,693 46	
from sales,	2,405 25	
from interest,	785 30	
from sale of bond,	12,737 50	
	<hr/>	102,987 72
		<hr/>
		\$113,339 05

## PAYMENTS.

1. Salaries and labor,		\$29,449 45
2. Provisions and supplies:—		
Meats of all kinds,	\$5,981 35	
Fish of all kinds,	1,628 48	
Fruit and vegetables,	1,109 80	
Flour,	5,882 00	
Grain and meal for table,	792 42	
Tea, coffee and chocolate,	944 06	
Grain and meal for stock,	2,832 45	
Sugar and molasses,	2,450 16	
Butter and cheese,	4,152 40	
Salt and other groceries,	1,942 85	
All other provisions,	41 58	
	<hr/>	27,757 05
3. Clothing,		3,474 56
4. Fuel and lights,		7,289 48
5. Medicines and medical supplies,		837 72
6. Furniture, beds and bedding,		6,145 88
7. Transportation and travelling expenses,		512 79
8. Ordinary construction and repairs,		2,793 52
9. Extraordinary construction and repairs,		4,890 66
10. Miscellaneous expenses, including:—		
1. Real estate,	\$4,306 60	
2. Farm stock,	1,144 00	
3. Farm supplies,	3,599 83	
4. Water,	1,174 00	
5. Minor expenses,	768 28	
6. Contingencies,	826 32	
	<hr/>	11,818 98
Total expenditures,		<hr/>
		\$94,470 09

## LIABILITIES.

Salaries and wages due Oct. 1, 1889,	\$3,557 54
Miscellaneous bills due,	1,655 78
	<hr/>
	\$5,213 32

# 16 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Due the institution for board Oct. 1, 1889: —

From State, . . . . .	\$3,984 52
towns, . . . . .	14,701 71
individuals, . . . . .	4,389 72
treasurer, Sept. 30, 1889, . . . .	18,868 96
	<hr/>
	\$41,944 91

## SUMMARY.

Total receipts, . . . . .	\$113,339 05
Total payments, . . . . .	94,470 09

Cash on hand Sept. 30, 1889, . . . . .	\$18,868 96
----------------------------------------	-------------

Total liabilities, . . . . .	\$5,213 32
Total debts due the institution, . . . . .	41,944 91
Total expenditures, . . . . .	94,470 09

Dividing this sum by 469.1, the average number of patients, we have the average expenditure per patient, . . . . .	\$201 38 <sup>5</sup> / <sub>100</sub>
And the average weekly expenditure per patient, . . . . .	3 86 <sup>3</sup> / <sub>100</sub>

Deducting from the total expenditures, . . . . .	\$94,470 09
The extraordinary expenses, . . . . .	8,697 26

We have the current expenses, . . . . .	\$85,772 83
-----------------------------------------	-------------

Dividing \$85,772.83 by 469.1, the average number of patients, we have the average expenditure per patient, . . . . .	\$182 84 <sup>1</sup> / <sub>2</sub>
Making the average weekly expenditure per patient, . . . . .	3 50 <sup>9</sup> / <sub>100</sub>

Deducting the increase of personal assets, . . . . .	\$863 53
From the current expenses, . . . . .	85,772 83

We have the necessary cost for the year, . . . . .	\$84,909 30
----------------------------------------------------	-------------

Dividing \$84,909.30 by 469.1, the average number of patients, we have, as the annual cost of each patient, . . . . .	\$181 00 <sup>4</sup> / <sub>100</sub>
Making the average weekly cost of each patient, . . . . .	3 47 <sup>1</sup> / <sub>100</sub>

EDWARD B. NIMS,

*Treasurer.*

We have examined, as auditors, the accounts of the treasurer, and found a satisfactory voucher for every entry.

JOHN L. OTIS,  
HENRY W. TAFT,  
*Auditors.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The thirty-fourth annual report for the year ending Sept. 30, 1889, is herewith respectfully submitted, giving in detail the operations of the hospital, and the results. The general statistics are given in the following table:—

### 1. General Statistics.

	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1888, . . . .	232	249	481
Admitted within the year, . . . .	98	57	155
Whole number of cases within the year, . .	330	306	636
Discharged within the year, . . . .	113	77	190
Viz.: as recovered, . . . .	27	15	42
much improved, . . . .	6	6	12
improved, . . . .	25	40	65
unimproved, . . . .	35	8	43
Deaths, . . . .	18	7	25
Not insane, . . . .	2	1	3
Patients remaining Sept. 30, 1889, . . .	217	229	446
Viz.: supported as State patients, . . .	45	46	91
town patients, . . . .	143	151	294
private patients, . . . .	31	30	61
Number of different persons within the year, .	322	302	624
Persons admitted, . . . .	93	55	148
Persons recovered, . . . .	22	14	36
Daily average number of patients, . . .	231.4	237.7	469.1

On the 1st of October, 1889, one woman and two men were transferred from State to town charge. Hence the new year will begin with —

State patients, . . . .	43	45	88
Town patients, . . . .	145	152	297

It will be seen from the foregoing table that the number of discharges (113 men and 77 women) is larger by 35 than the number of admissions (98 men and 57 women), making a decrease in the population of the hospital of 35. The number at the beginning of the year was 481 (232 men and 249 women), which, added to the number of admissions, makes the whole number under treatment 636 (336 men and 306 women). Of those discharged, 20 were transferred to the Worcester Insane Asylum; 19 were boarded out in families, by the Board of Lunacy and Charity; 15 were removed to almshouses; 19 were removed out of the State, they having no residence or settlement therein; and 92 went to their friends or homes.

The number of persons admitted within the year was 148: men, 93; women, 55. The number of persons under treatment was 624: men, 322; women, 302. Two men and two women were discharged and readmitted. Three men and two women were admitted, discharged and readmitted. One man was discharged, readmitted and discharged. Two men were admitted, discharged, readmitted and discharged. Of the 155 cases admitted, 114 were first admissions, 27 second admissions, 8 third admissions, 2 fourth admissions, 3 sixth admissions, and 1 the seventh admission.

The daily average, 469.1, is a little smaller than in the preceding year. The largest number in the house on any one day was 498; the smallest number was 440. The number of persons discharged was 187: men, 110; women, 77.

#### STATUS OF PATIENTS.

The change in the status of patients is going on gradually from year to year. The number of State patients at the beginning of the year was 104; town and city patients, 309; private patients, 68. Sixty State patients were admitted within the year; 72 town and city, and 23 private. Sixty of those supported by State were discharged, 98 by cities and towns, 32 private patients; leaving, at the end of the year, 91 State patients, 294 city and town, and 61 private. The change in status may be accounted for by the fact that most of the patients who were removed by transfer and who were boarded out in families, were supported by the State,

and that a very large proportion of the population in western Massachusetts have legal settlements.

The average weekly number in each class for two years past is shown in the accompanying table : —

	1887-88.			1888-89.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, .	60.37	51.80	112.17	56.56	48.11	104.67
Town patients, .	132.88	161.13	294.01	145.51	157.50	303.01
Private patients, .	32.67	31.34	64.01	29.38	31.93	61.31

#### RECOVERIES.

The number of recoveries, including 5 inebriates, was 42 ; of these, 10 had been discharged before as recovered, — a fact which proves how impossible it is for physicians in hospitals to estimate the tendency to relapse in patients, and to decide when such patients are completely recovered. The science of medicine is not an exact science. Like physicians in general practice, we can only judge of the probabilities in each case according to our knowledge. The conditions may be obscure or unknown. The causes which may afterward affect them cannot be taken into account.

The ratio of persons recovered to the number admitted is 24.33 per cent. The ratio of persons recovered to the number discharged is 19.25 per cent. The ratio of persons recovered to the number discharged, exclusive of deaths, is 22.22 per cent.

#### DISCHARGED ON PROBATION.

Twenty-four patients were discharged on probation, under the sixty-day law ; of these, but one returned within the limited time. Twenty of these returned home with friends, the remainder were boarded out in families. Nineteen patients have been removed from the hospital by the State Board of Lunacy and Charity, and placed in families ; of this number, one only has returned to the hospital by reason of ill health.



## DEATHS.

Twenty-five persons have died within the year. This is the smallest percentage, reckoned on the whole number of cases, for sixteen years; or, reckoned on the daily average population, the lowest for ten years. Eighteen of the deaths were of men, and 7 of women. Four were occasioned by acute diseases, and 21 by diseases which were chronic in character. One died of exhaustion of acute mania, complicated with pyemia, the result of injury from a fall which occurred before admission. One died of peritonitis, following long-continued melancholia, accompanied by frequent attempts to commit violence upon himself. Six deaths resulted from paresis, 5 from phthisis, 3 from epilepsy. Two feeble men died of apoplexy, 3 from exhaustion of chronic mania, 2 from long-continued disease of the heart, and 1 of old age. The amount of illness from acute disorders has been small. No suicide has occurred in the hospital since October, 1884. The ratio of deaths, reckoned upon the daily average number of patients, was 5.32 per cent. The ratio of deaths to the whole number of cases was 3.93 per cent. Of the 25 persons who died, 7 were maintained by the State, 9 by cities and towns, and 9 by individuals.

The number of deaths, and their ratios since 1858, are given in the following table:—

*Deaths and their Ratios from Sept. 30, 1858, to Oct. 1, 1888.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.06
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97

*Deaths and their Ratios, etc. — Concluded.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.40	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47
1887-88, .	635	470.25	14	17	31	4.88	6.59
1888-89, .	636	469.10	18	7	25	3.93	5.32

## WORSHIP AND ENTERTAINMENT.

The assemblies of patients have been continued during the year, as given in the following table :—

*Exercises in Chapel.*

## 1. ON THE SABBATH :—

Divine worship, . . . . .	52 days.
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## 2. ON SECULAR EVENINGS :—

(a) *Readings and Recitations, opened and closed with music :—*

The Bible and selections of poetry, . . . . .	41 days.
The Bible and selections of prose, . . . . .	1 day.
The Bible and selections of poetry and prose, . . . . .	9 days.
The Bible and selections of poetry, and recitations, . . . . .	1 day.
Miscellaneous selections of prose, . . . . .	96 days.
Miscellaneous selections of poetry, . . . . .	5 days.
Miscellaneous selections of poetry and prose, . . . . .	49 days.
Miscellaneous selections of poetry and prose, and recitations, . . . . .	1 day.
Recitations, . . . . .	1 day.
Lectures, . . . . .	9 days.

(b) *Other Entertainments :—*

Pictures shown with the stereopticon, . . . . .	8 days.
Concerts, . . . . .	2 days.
Ventriloquism, . . . . .	1 day.

(c) *Social Assemblies :—*

Quadrille parties, . . . . .	19 days.
No assembly, . . . . .	70 days.

Total, . . . . .	365 days.
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At the religious services which have been held on Sabbath afternoons, without intermission, the average attendance was 285.59. The largest number present at any one service was 309, the smallest number was 264.

During five months in the summer and autumn the assemblies were omitted on Tuesday and Friday evenings, and on days when the hospital was visited by officials. The usual Thanksgiving and Christmas exercises were also observed. The attendance at the entertainments and other evening assemblies varies but little from that at the religious services. The services on the Sabbath are conducted by clergymen of

different denominations, generally from the city. The readings, recitations and lectures are conducted by some one of the officers of the hospital, as a rule.

Dr. T. H. Meekins of this city has officiated at the stereopticon exhibitions for several years past. The variety of these exercises makes them more acceptable to the various tastes of the people who attend.

#### FARM.

The year has been a successful one on the farm in most respects. The crops are excellent, with the exception of the apples, this being the non-bearing year; and the potato crop, the warm, wet weather in August having injured the vines, and checked the growth of the tubers. All of the other vegetables have been abundant in quantity and excellent in quality.

The amount of hay was larger than ever before. The farm is now so large that in the future it will probably produce all of the hay that will be required for use. The raising of ensilage, which now seems to have become an established custom, will be of assistance in case of a short crop. The use of ensilage here has been a success, and will probably be continued. The ease with which it is grown and harvested, the small amount of room necessary for storing it, its value as a fodder, are facts which are in its favor. The annual amount of hay harvested each year since 1864 is given in the following table: —

1864, estimated, . . .	40 tons.	1877, weighed, . . .	154 tons.
1865, " . . .	62 "	1878, " . . .	179 "
1866, " . . .	42 "	1879, " . . .	144 "
1867, weighed, . . .	82 "	1880, " . . .	154 "
1868, " . . .	86 "	1881, " . . .	213 "
1869, " . . .	91 "	1882, " . . .	170 "
1870, " . . .	74 "	1883, " . . .	197 "
1871, " . . .	75 "	1884, " . . .	174 "
1872, " . . .	91 "	1885, " . . .	251 "
1873, " . . .	84 "	1886, " . . .	269 "
1874, " . . .	120 "	1887, " . . .	302 "
1875, " . . .	100 "	1888, " . . .	305 "
1876, " . . .	111 "	1889, " . . .	331 "

The product of pork for the year was 19,227 pounds. Forty-eight hogs were slaughtered, the heaviest of which dressed 717 pounds. The following table gives the amount for each year since 1865 :—

*Pork Raised upon the Farm.*

1865, . . .	6,265 pounds.	1878, . . .	14,451 pounds.
1866, . . .	5,443 "	1879, . . .	13,569 "
1867, . . .	7,416 "	1880, . . .	14,729 "
1868, . . .	7,791 "	1881, . . .	15,610 "
1869, . . .	8,469 "	1882, . . .	14,414 "
1870, . . .	7,447 "	1883, . . .	15,612 "
1871, . . .	7,863 "	1884, . . .	10,192* "
1872, . . .	11,366 "	1885, . . .	17,544 "
1873, . . .	10,511 "	1886, . . .	21,503 "
1874, . . .	12,024 "	1887, . . .	26,331 "
1875, . . .	12,693 "	1888, . . .	18,465 "
1876, . . .	12,467 "	1889, . . .	19,227 "
1877, . . .	13,605 "		

The number of gallons of milk produced within the year was 27,765. One-third of this amount is given in the table of farm products; the other two-thirds are accounted for in the food given to the animals, and the cost of the animals.

The employment of patients on the farm has been continued, as usual. This custom has a double advantage: it is a benefit to the patients themselves, and contributes to the support of the hospital. As a class, they are happier, more contented and healthier, for the out-door exercise.

*List of Farm Products in 1889.*

Hay (first growth of home farm), 204 tons, . . .	\$3,060 00
Hay (south lot), 25½ tons, . . .	382 50
Hay (Clarke orchard), 16 tons, . . .	240 00
Hay (aftergrowth of whole farm), 77½ tons, . . .	1,162 50
Hay (second quality), 8½ tons, . . .	86 00
Corn fodder, dry, 20 tons, . . .	120 00
Corn, 360 bushels, . . .	216 00
Straw, 6 tons, . . .	60 00
Oats, 150 bushels, . . .	51 00
Potatoes, 1,450 bushels, . . .	870 00
Broom seed, 50 bushels, . . .	20 00

\* Quantity diminished by disease.

*List of Farm Products in 1889 — Concluded.*

Broom brush, 1,000 pounds, . . . . .	\$60 00
Carrots, 183 bushels, . . . . .	73 20
Sugar beets, 885 bushels, . . . . .	265 50
Beets, 48 bushels, . . . . .	36 00
Onions, 435 bushels, . . . . .	217 25
Turnips, 900 bushels, . . . . .	270 00
Parsnips, 65 bushels, . . . . .	39 00
Beans (Lima), in shell, 128 bushels, . . . . .	128 00
Beans (common), in shell, 28 bushels, . . . . .	28 00
Beans (string), 27½ bushels, . . . . .	55 00
Pease (green), in pod, 125½ bushels, . . . . .	140 25
Sweet corn (green), in ear, 282½ bushels, . . . . .	282 50
Tomatoes, 166½ bushels, . . . . .	166 50
Lettuce, 131½ bushels, . . . . .	131 50
Cucumbers, 111 bushels, . . . . .	111 00
Squash (summer), 80½ bushels, . . . . .	80 50
Squash (winter), 11,460 pounds, . . . . .	171 90
Melons, 2,264 pounds, . . . . .	22 64
Asparagus, 36 bushels, . . . . .	108 00
Pie plant, 67 bushels, . . . . .	67 00
Beet greens, 35½ bushels, . . . . .	35 50
Spinach, 54 bushels, . . . . .	54 00
Cabbage, 4,500 heads, . . . . .	225 00
Currants, 32 bushels, . . . . .	96 00
Apples, 284 barrels, . . . . .	426 00
Pears, 30 bushels, . . . . .	22 50
Quinces, 3½ bushels, . . . . .	5 25
Grapes, 50 pounds, . . . . .	2 00
Beef, 13,720 pounds, . . . . .	1,006 48
Veal (raised here), 682 pounds, . . . . .	73 90
Pork, 19,227 pounds, . . . . .	1,330 17
Pigs sold, 388, . . . . .	988 00
Pigs, roasting, 4, . . . . .	8 00
Chickens, 660 pounds, . . . . .	126 10
Heads and plucks, 19, . . . . .	19 00
Eggs, 489 dozen, . . . . .	125 17
Milk (grass fed), 9,255 gallons, . . . . .	2,221 28
Cider, 24½ barrels, . . . . .	61 25
Calf skins, 6, . . . . .	7 50
Young calves sold, 12, . . . . .	34 00
Wood, 43 cords, . . . . .	129 00
Ensilage, 105 tons, . . . . .	367 50
Celery, 672 heads, . . . . .	19 10
Posts, 255, . . . . .	63 75
Lumber, 9,728 feet, . . . . .	126 46

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**\$16,294 71**

### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report of 1887-88, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board bills of its patients, and the small sum of \$10 each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last-mentioned source during the year were \$20.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3.00 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is a compensation fixed by statute law. Ninety-one, or more than one-fifth, of the inmates now belong to this class. During the past year the weekly average of them was 22.31 per cent. of the whole. For town patients it has received, and now receives, from the treasuries of the towns, respectively, in which these patients have legal settlements, the same sum per week (\$3.25 each) as from the State treasury for State patients.

Formerly the towns clothed their patients and remunerated the hospital for damages done by them, but have not done so since April 1, 1888. Two hundred and ninety-four of the inmates are now in this class. The weekly average of them for the year was 64.69 per cent. of the whole.

For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1888, was \$4.99 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 13.72 per cent. of the whole. The average weekly pay per capita, charged by the hospital

for all of its patients, State, town and private, in the course of the year, is \$3,488.

Such are the pecuniary resources of the institution. We turn to the results of the finances of the last twenty-three years. In April, 1865, the hospital was freed from debt. The financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the 1st of June, 1867, it received a direct bonus from the State of \$5,000 in two appropriations, for specific purposes, — one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to nearly 296 acres, together with four dwelling houses. The total cost of this real estate was \$37,190.52. The State has, then, in this way alone, been overpaid for its bonus in the sum of \$32,190.52.

The amount paid by the hospital for repairs and improvements in the course of the last year is \$7,184.18; in the course of the twenty-four years from Sept. 30, 1865, to Sept. 30, 1889, is \$273,711.27.

The surplus of cash assets now on hand, including the reserve fund, is \$36,731.59, or \$36,429 55 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$18,368.47. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$15,868.47. The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums, the account of debit of the Commonwealth to the hospital appears to be as follows: —

Excess of cost of land over direct bonus, . . . . .	\$32,190 52
Repairs and improvements, . . . . .	273,711 27
Excess of present cash assets, . . . . .	36,429 55
Increase of provisions and supplies, . . . . .	15,868 47
Increase of furniture, . . . . .	8,000 00
Total, . . . . .	<u>\$366,199 81</u>



The necessary current repairs of the building may be estimated at \$3,000 annually. Deducting this sum for each of the twenty-four years since Sept. 30, 1865, a total of \$72,000, there is a remainder of \$294,199.81. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely on direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary we have taken into account only the actual disbursements of money by the hospital in contributing to its own improvements. But, aside from this, a large amount of work in effecting those improvements was performed by the teams of horses and cattle belonging to the institution, and by the regular corps of its employees. Agreeably to all correct business principles, as well as to the custom at some similar institutions, the hospital should be accredited with the amount of the value of this labor; but no credit has ever been given for it. Many thousands of dollars might, in this direction, be justly added to the sum above mentioned, as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition, it may be interesting to know to what extent the tax payers of the State have contributed to the institution. From a list furnished by the State treasurer, of all the appropriations made either for the construction, the repairs, or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection down to the present day, it has cost the people of the Commonwealth only \$375,550.

#### THE CHRONIC INSANE.

On Sept. 30, 1889, there were in the five State lunatic hospitals 3,133 patients; and, as nearly as could be ascertained, over ninety per cent. of these had been insane more than a year. The duration varied from one to upwards of fifty years. When we remember that the per cent. of recoveries among patients who have been insane more than a year is very small, it is easy to understand what the prospect for the future is, among this ninety per cent. It is also evident that the State hospitals have already largely become recep-

tacles for chronic cases; and, as the small per cent. of recovered and improved cases are removed, it is certain that the number and proportion of chronic cases will increase. The question then arises, whether the present hospitals shall be devoted to the care of the chronic insane, and new hospitals erected for the curable cases, or whether further provision shall be made for the incurable insane. The present hospitals, especially those which have been more recently erected, have been built at great expense. They are very complete in their appointments, and are well adapted to the care of any class of the insane. The problem for the future seems to be, whether the chronic insane can be provided for in buildings erected at a more moderate expense, and whether they can be supported properly at a lower rate than in the hospitals proper. Most of the present hospitals are already large, and any decided expansion would impair their efficiency. The methods in hospitals for curables and incurables must be necessarily somewhat different; and the bringing together of these different methods in the same institution would be difficult, and each would have an effect upon the other. The inference is, then, that a separate institution for the chronic insane would in most respects be preferable.

#### ACKNOWLEDGMENTS.

Various contributions of papers, magazines and gifts have been made to the hospital in the past year, by Mr. S. E. Bridgman of reading matter, Miss Florence Austin of several packages of papers. Mrs. S. A. Woodworth and Mrs. S. M. Butler have kindly remembered various patients with gifts. The publishers of the "Staaten Zeitung" have sent two copies of their paper, and the "Christian Register" one of theirs, during the year. Misses Herrick, Kidder, and the Messrs. Kidder, have given several concerts. Dr. T. W. Meekins, with the stereopticon, gave several exhibitions, as he has done for many years. To these and many others acknowledgments are due for favors received. The hospital furnishes a large amount of reading matter to its patients, such as newspapers, pictorial papers, magazines, etc. It also has a library of about fifteen hundred volumes, to which patients have free access. It may be proper to say

that any contributions of reading matter are gratefully received, and appreciated by numerous readers in the hospital.

#### CONCLUSION.

The changes among the subordinate officers are few. Mrs. Susan Miller, who was in charge of the sewing room, resigned; her place was taken by Minnie A. Smith. Lizzie E. Rice is laundress, in place of Nettie Lyman, who resigned. Thirty-two of the attendants and regular employees have remained in the hospital during the year, also nine of the officers.

Thus ends the year, with its cares, duties and work. Mistakes have been made, and the desired results have not always been attained; yet it is hoped that some good has been accomplished. To those who have labored with me to promote the interests and the welfare of the institution, I express my sincere thanks.

EDWARD B. NIMS.

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# APPENDIX.

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**\* 2. Monthly Admissions, Discharges and Averages.**

MONTHS.	ADMISSIONS.			DISCHARGES (including Deaths).			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1888.</b>									
October, . . .	10	6	16	10	7	17	229.93	249.71	479.64
November, . . .	5	4	9	8	5	13	229.86	246.40	476.26
December, . . .	20	8	28	2	11	13	238.84	245.48	484.32
<b>1889.</b>									
January, . . .	9	6	15	7	5	12	247.16	245.00	492.16
February, . . .	4	5	9	7	3	10	247.32	245.21	492.53
March, . . .	7	4	11	12	5	17	245.00	247.65	492.65
April, . . .	6	2	8	12	9	21	236.40	241.10	477.50
May, . . .	12	3	15	27	14	41	225.42	230.39	455.81
June, . . .	7	3	10	5	8	13	219.33	226.20	445.53
July, . . .	5	5	10	6	6	12	222.29	223.45	445.74
August, . . .	9	6	15	12	1	13	219.13	224.19	443.32
September, . . .	4	5	9	5	3	8	216.87	228.13	445.00
Total of cases, . . .	98	57	155	113	77	190	-	-	-
Total of persons, . . .	93	55	148	110	77	187	-	-	-
Daily average for the year, . . .	-	-	-	-	-	-	231.40	237.70	†469.10

\* For Table No. 1, see the beginning of the superintendent's report.

† These totals are obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

**3. Received on First and Subsequent Admissions.**

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	78	35	113	-	-	-
Second, . . . . .	12	15	27	3	6	9
Third, . . . . .	7	2	9	5	2	7
Fourth, . . . . .	-	2	2	-	5	5
Fifth, . . . . .	-	-	-	-	-	-
Sixth, . . . . .	1	2	3	2	6	8
Seventh, . . . . .	-	1	1	-	1	1
Total of cases, . . .	98	57	155	10	20	30
Total of persons, . . .	93	55	148	7	12	19

4. *Ages of Persons Admitted for the First Time.*

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Fifteen years and less, . . . . .	2	—	2	1	—	1
From 15 to 20 years, . . . . .	3	2	5	2	1	3
20 to 25 years, . . . . .	10	3	13	11	5	16
25 to 30 years, . . . . .	9	8	17	9	7	16
30 to 35 years, . . . . .	5	5	10	10	4	14
35 to 40 years, . . . . .	9	2	11	14	4	18
40 to 50 years, . . . . .	11	5	16	16	8	24
50 to 60 years, . . . . .	4	1	5	4	2	6
60 to 70 years, . . . . .	5	3	8	6	3	9
70 to 80 years, . . . . .	3	1	4	4	1	5
Over 80 years, . . . . .	—	—	—	1	—	1
Not insane, . . . . .	2	1	3	—	—	—
Unknown, . . . . .	15	4	19	—	—	—
Total of persons, . . . . .	78	35	113	78	35	113

5. *Parentage of Persons Admitted.*

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	—	1	—	—	—	1
New Hampshire, . . . . .	1	2	—	—	1	2
Vermont, . . . . .	5	6	2	1	7	7
Massachusetts, . . . . .	25	21	15	12	40	33
Connecticut, . . . . .	5	8	1	1	6	9
New York, . . . . .	1	—	1	3	2	3
Pennsylvania, . . . . .	—	—	1	1	1	1
New Jersey, . . . . .	1	1	—	—	1	1
Illinois, . . . . .	—	1	—	—	—	1
Kentucky, . . . . .	—	1	—	—	—	1
Virginia, . . . . .	1	1	—	—	1	1
Maryland, . . . . .	—	—	—	1	—	1
Canada, . . . . .	8	8	2	1	10	9
New Brunswick, . . . . .	—	—	1	1	1	1
England, . . . . .	6	5	3	2	9	7
Ireland, . . . . .	23	22	25	28	48	50
Scotland, . . . . .	1	2	—	—	1	2
Germany, . . . . .	8	7	2	2	10	9
Norway, . . . . .	1	1	—	—	1	1
Greece, . . . . .	1	1	—	—	1	1
Italy, . . . . .	2	1	—	—	2	1
France, . . . . .	—	1	—	—	—	1
Bohemia, . . . . .	—	—	1	1	1	1
Unknown, . . . . .	4	3	1	1	5	4
Total of persons, . . . . .	93	93	55	55	148	148

6. *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	13	8	21
Hampden County, . . . . .	43	31	74
Berkshire County, . . . . .	24	10	34
Franklin County, . . . . .	11	5	16
Suffolk County, . . . . .	1	—	1
Worcester County, . . . . .	—	1	1
Norfolk County, . . . . .	1	—	1
Total of persons, . . . . .	93	55	148
Cities and large towns, . . . . .	57	36	93
Country districts, . . . . .	36	19	55
Total of persons, . . . . .	93	55	148

7. *Civil Condition of Persons Admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . .	35	17	52	37	11	48	5	5	10	1	2	3
Second, . . .	6	4	10	—	7	7	1	2	3	1	1	2
Third, . . .	5	—	5	1	2	3	—	—	—	—	—	—
Fourth, . . .	—	1	1	—	1	1	—	—	—	—	—	—
Fifth, . . .	—	—	—	—	—	—	—	—	—	—	—	—
Sixth, . . .	1	1	2	—	—	—	—	1	1	—	—	—
Seventh, . . .	—	—	—	—	—	—	—	—	—	—	—	—
Total of persons, . . .	47	23	70	38	21	59	6	8	14	2	3	5



## 8. Occupations of Persons Admitted.

MALES.			
Hotel clerk, . . . .	1	Teamster, . . . .	1
Canvasser, . . . .	1	Modeller, . . . .	1
Laborers, . . . .	24	Publisher, . . . .	1
Carpenters, . . . .	4	None, . . . .	5
Shoemakers, . . . .	3		—
Mill operatives, . . . .	6	Total of persons, . .	93
Horse trainer, . . . .	1		
Saloon keepers, . . . .	2	FEMALES.	
Truckman, . . . .	1	Paper maker's wife, . . . .	1
Veterinary surgeon, . . . .	1	Mill operative's wife, . . . .	2
Physicians, . . . .	2	Farmer's wife, . . . .	1
Merchant, . . . .	1	Manufacturer's wife, . . . .	2
Farmers, . . . .	13	Laborer's wife, . . . .	2
Pattern maker, . . . .	1	Insurance agent's wife, . . . .	1
Machinist, . . . .	1	Mason's wife, . . . .	1
Whip makers, . . . .	2	Railroad employee's wife, . . . .	1
Sewing-machine agent, . . . .	1	Policeman's wife, . . . .	1
Engineer, . . . .	1	Painter's wife, . . . .	2
Student, . . . .	1	Carpenter's wife, . . . .	3
Stone cutters, . . . .	2	Tailor's wife, . . . .	1
Druggist, . . . .	1	Cigar maker's wife, . . . .	1
Dyer, . . . .	1	Domestic, . . . .	13
Book-keeper, . . . .	1	Farmer's daughter, . . . .	1
Railroad employee, . . . .	1	Cotton weaver, . . . .	1
Butcher, . . . .	1	Mill operatives, . . . .	5
Watchmen, . . . .	2	Waiter, . . . .	1
Clerks, . . . .	4	Housekeepers, . . . .	6
Paper maker, . . . .	1	Musician, . . . .	1
Brass maker, . . . .	1	None, . . . .	7
Mason, . . . .	1	Unknown, . . . .	1
Foundry man, . . . .	1		—
Mechanic, . . . .	1	Total of persons, . . . .	55

9. *Reported Duration of Insanity before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER AD- MISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	16	12	28	2	3	5	18	15	33
From 1 to 3 months, . . . . .	7	4	11	1	—	1	8	4	12
3 to 6 months, . . . . .	12	3	15	—	—	—	12	3	15
6 to 12 months, . . . . .	3	1	4	—	2	2	3	3	6
1 to 2 years, . . . . .	7	2	9	—	2	2	7	4	11
2 to 5 years, . . . . .	10	4	14	1	1	2	11	5	16
5 to 10 years, . . . . .	2	3	5	3	7	10	5	10	15
10 to 20 years, . . . . .	1	1	2	4	4	8	5	5	10
Over 20 years, . . . . .	2	1	3	2	—	2	4	1	5
Not insane, . . . . .	2	2	4	—	—	—	2	2	4
Unknown, . . . . .	16	2	18	7	3	10	23	5	28
Total of cases, . . . . .	78	35	113	20	22	42	98	57	155
Total of persons, . . . . .	78	35	113	15	20	35	93	55	148
Average of known cases (in years), . . . . .	1½	2½	1½	10½	5½	7½	3½	3½	3½

\* In this division of the table, the whole period of time, from the first attack to the last admission, is indicated.

10. *Form of Disease in the Cases Admitted.*

FORM OF DISEASE.	Males.	Females.	Totals.
Epilepsy, . . . . .	3	2	5
General paralysis of the insane, . . . . .	6	—	6
Mania, acute, . . . . .	18	8	26
chronic, . . . . .	13	11	24
recurrent, . . . . .	1	3	4
<i>a potu</i> , . . . . .	2	—	2
puerperal, . . . . .	—	1	1
alcoholic, . . . . .	2	1	3
Melancholia, acute, . . . . .	11	10	21
chronic, . . . . .	1	2	3
Dementia, primary, . . . . .	2	3	5
secondary, . . . . .	16	8	24
senile, . . . . .	4	1	5
Delusional, primary, . . . . .	4	5	9
Dipsomania, . . . . .	5	—	5
Inebriate, . . . . .	5	—	5
Imbecility, . . . . .	3	—	3
Not insane, . . . . .	2	2	4
Total of cases, . . . . .	98	57	155
Total of persons, . . . . .	93	55	148

11. *Probable Causes of Insanity in Persons Admitted.*

CAUSES.	Males.	Females.	Totals.
<i>Physical.</i>			
Ill health, . . . . .	6	7	13
Epilepsy, . . . . .	4	2	6
Paralysis, . . . . .	1	—	1
Paresis, . . . . .	2	—	2
Meningitis, . . . . .	1	—	1
Dropsy, . . . . .	1	—	1
Softening of the brain, . . . . .	1	—	1
Syphilis, . . . . .	1	—	1
Puerperal, . . . . .	—	4	4
Change of life, . . . . .	—	5	5
Heredity, . . . . .	6	2	8
Heredity and ill health, . . . . .	—	1	1
Intemperance, . . . . .	24	3	27
Intemperance and injury to head, . . . . .	1	—	1
Dissipation, . . . . .	—	1	1
Excessive use of tobacco, . . . . .	1	—	1
Masturbation, . . . . .	8	—	8
Injury to head, . . . . .	3	—	3
Sunstroke, . . . . .	1	—	1
Old age, . . . . .	1	—	1
Overwork, . . . . .	4	2	6
Overwork and study, . . . . .	1	—	1
Overwork and worry, . . . . .	—	1	1
<i>Mental.</i>			
Trouble, . . . . .	1	4	5
Domestic trouble, . . . . .	2	1	3
Financial trouble, . . . . .	1	1	2
Trouble and sickness, . . . . .	—	1	1
Anxiety, . . . . .	—	1	1
Disappointment, . . . . .	1	—	1
Loss of friends, . . . . .	—	1	1
Religious excitement, . . . . .	1	2	3
Fright, . . . . .	1	—	1
Total of mental, . . . . .	7	11	18
Total of physical, . . . . .	67	28	95
Not insane, . . . . .	2	2	4
Unknown, . . . . .	17	14	31
Total of persons, . . . . .	93	55	148

*12. Relations to Hospitals of Persons Admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Totals.
Never before in any hospital, . . . .	74	32	106
Former inmates of this hospital, . . .	14	17	31
Former inmates of other hospitals in this State, . . . . .	—	1	1
Former inmates of this hospital and other hospitals in this State, . . . . .	1	2	3
Former inmates of hospitals in other States,	2	2	4
Former inmates of this hospital and of hospitals in other States, . . . . .	1	1	2
Former inmates of other hospitals in this State, and of hospitals in other States,	1	—	1
Total of persons, . . . . .	93	55	148

## 13. Discharges Classified by Admission and Result.

ADMISSION.	NOT INSANE.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . .	2	1	3	22	8	30	5	4	9	23	31	54	26	7	33	17	5	22	95	56	151
Second, . . .	-	-	-	3	5	8	-	-	-	2	7	9	7	1	8	1	2	3	13	15	28
Third, . . .	-	-	-	2	2	4	-	1	1	-	-	-	2	-	2	-	-	-	4	3	7
Fourth, . . .	-	-	-	-	-	-	-	1	1	-	1	1	-	-	-	-	-	-	-	2	2
Fifth, . . .	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Sixth, . . .	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	1	1
Total of cases, . . .	2	1	3	27	15	42	6	6	12	25	40	65	35	8	43	18	7	25	113	77	190
Total of persons, . . .	2	1	3	26	15	41	6	6	12	24	40	64	34	8	42	18	7	25	110	77	187

14. *How Supported.*

	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . . .	38	22	60	56.56	48.11	104.67
Town patients, . . .	44	28	72	145.51	157.50	303.01
Private patients, . . .	16	7	23	29.38	31.93	61.31
Total of cases, . . .	98	57	155	231.45	237.54	468.99*

\* This weekly average is .11 less than the daily average 469.10.

15. *Cases Discharged Recovered.—Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . . .	4	4	8	6	2	8	1	—	1
From 1 to 3 months, . . .	6	3	9	11	3	14	1	2	3
3 to 6 months, . . .	2	1	3	6	4	10	6	1	7
6 to 12 months, . . .	1	3	4	4	6	10	4	6	10
1 to 2 years, . . .	2	—	2	—	—	—	3	2	5
2 to 5 years, . . .	—	—	—	—	—	—	2	—	2
5 to 10 years, . . .	4	3	7	—	—	—	1	3	4
10 to 20 years, . . .	—	—	—	—	—	—	—	—	—
Over 20 years, . . .	—	—	—	—	—	—	1	—	1
Unknown, . . .	8	1	9	—	—	—	8	1	9
Total of cases, . . .	27	15	42	27	15	42	27	15	42
Total of persons, . . .	26	15	41	26	15	41	26	15	41
Average of known cases (in months), . . .	17 $\frac{10}{18}$	16 $\frac{2}{3}$	17 $\frac{17}{18}$	31 $\frac{1}{2}$	5 $\frac{1}{10}$	4 $\frac{7}{8}$	21 $\frac{1}{3}$	21 $\frac{1}{4}$	21 $\frac{1}{3}$

## 16. Cases Resulting in Death. — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESI- DENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . . . .	3	—	3	1	—	1	1	—	1
From 1 to 3 months, . . . . .	1	2	3	2	—	2	—	—	—
3 to 6 months, . . . . .	1	—	1	1	1	2	1	1	2
6 to 12 months, . . . . .	1	—	1	5	—	5	2	—	2
1 to 2 years, . . . . .	2	1	3	2	1	3	1	1	2
2 to 5 years, . . . . .	3	1	4	2	1	3	3	1	4
5 to 10 years, . . . . .	2	—	2	2	1	3	3	—	3
10 to 20 years, . . . . .	1	2	3	2	1	3	2	2	4
Over 20 years, . . . . .	1	1	2	1	2	3	2	2	4
Unknown, . . . . .	3	—	3	—	—	—	3	—	3
Totals, . . . . .	18	7	25	18	7	25	18	7	25
Average of known cases (in months), . . . . .	34	82½	49¼	56½	110	71½	84½	192½	111½

## 17. Cases Discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Epilepsy, . . . . .	—	—	—	2	2	4
General paralysis of the in- sane, . . . . .	—	—	—	6	—	6
Mania, acute, . . . . .	6	6	12	1	—	1
chronic, . . . . .	—	—	—	3	2	5
recurrent, . . . . .	1	1	2	—	—	—
alcoholic, . . . . .	7	1	8	—	—	—
puerperal, . . . . .	—	1	1	—	—	—
Melancholia, acute, . . . . .	2	4	6	2	1	3
Delusional insanity, . . . . .	1	—	1	—	—	—
Dementia, primary, . . . . .	1	—	1	—	1	1
secondary, . . . . .	—	—	—	3	1	4
senile, . . . . .	—	—	—	1	—	1
Dipsomania, . . . . .	4	1	5	—	—	—
Inebriate, . . . . .	5	1	6	—	—	—
Totals, . . . . .	27	15	42	18	7	25

*18. Causes of Death.*

CAUSES.	Males.	Females.	Totals.
<b>Nervous system :—</b>			
General paralysis of the insane, . . .	6	—	6
Exhaustion of acute mania, . . .	1	—	1
Exhaustion of chronic mania, . . .	1	—	1
Exhaustion of acute melancholia, . . .	—	1	1
Apoplexy, . . . . .	2	—	2
Epilepsy, . . . . .	1	2	3
<b>Respiratory :—</b>			
Phthisis, . . . . .	2	3	5
<b>Zymotic :—</b>			
Pyæmia, . . . . .	1	—	1
<b>Digestive :—</b>			
Peritonitis, . . . . .	1	—	1
<b>Circulatory :—</b>			
Heart disease, . . . . .	2	1	3
<b>General :—</b>			
Old age, . . . . .	1	—	1
<b>Totals, . . . . .</b>	<b>18</b>	<b>7</b>	<b>25</b>



## 19. Deaths Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		TOTALS.	
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.
Second, . . .	-	-	-	-	-	-	-	1	1	2
Totals, . . .	-	-	-	-	-	-	-	1	1	2

## 20. Recoveries Classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		TOTALS.	
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.
Second, . . .	3	5	8	-	-	-	-	-	-	3
Third, . . .	2	2	4	-	-	-	-	-	-	2
Totals, . . .	5	7	12	-	-	-	-	-	-	5

21. *Deaths Classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY FROM FIRST ATTACK.			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Under 1 month, . . . . .	1	—	1	1	—	1
From 1 to 3 months, . . . . .	—	—	—	2	—	2
3 to 6 months, . . . . .	—	1	1	—	1	1
6 to 12 months, . . . . .	3	—	3	6	—	6
1 to 2 years, . . . . .	1	1	2	1	1	2
2 to 5 years, . . . . .	3	1	4	3	1	4
5 to 10 years, . . . . .	3	—	3	2	1	3
10 to 20 years, . . . . .	2	2	4	2	1	3
Over 20 years, . . . . .	2	2	4	1	2	3
Unknown, . . . . .	3	—	3	—	—	—
Totals, . . . . .	18	7	25	18	7	25
Average of known cases (in months), . . . . .	95 $\frac{2}{15}$	196 $\frac{1}{2}$	127 $\frac{1}{2}$	54 $\frac{1}{2}$	112 $\frac{1}{2}$	71 $\frac{3}{4}$

22. *Ages of Those who died.*

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteen years and less, . . . . .	1	1	2	—	—	—
From 15 to 20 years, . . . . .	1	—	1	—	—	—
20 to 25 years, . . . . .	—	1	1	2	—	2
25 to 30 years, . . . . .	1	1	2	1	—	1
30 to 35 years, . . . . .	1	2	3	—	1	1
35 to 40 years, . . . . .	4	—	4	4	—	4
40 to 50 years, . . . . .	3	—	3	2	2	4
50 to 60 years, . . . . .	2	1	3	2	1	3
60 to 70 years, . . . . .	1	1	2	2	2	4
70 to 80 years, . . . . .	—	—	—	5	1	6
Unknown, . . . . .	4	—	4	—	—	—
Totals, . . . . .	18	7	25	18	7	25

23. *Annual Admissions since the Opening of the Hospital, with Discharges and Deaths within the Official Year, and the Number of each Year's Admissions remaining Sept. 30, 1889.*

YEARS.	NEW CASES (FIRST ADMISSION).														
	ADMITTED.			DISCHARGED AND DIED IN 1889-90.											
	Males.	Females.	Totals.	RECOVERED.		MUCH IMPROVED.		IMPROVED.		UNIMPROVED.		NOT INSANE.		DIED.	
				Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
1858,—2 months,	99	129	228	—	—	—	—	—	—	—	—	—	—	—	—
1858-59,	42	46	88	—	—	—	—	—	—	—	—	—	—	—	—
1859-60,	66	91	157	—	—	—	—	—	—	—	—	—	—	—	—
1860-61,	58	46	104	—	—	—	—	—	—	—	—	—	—	—	—
1861-62,	51	43	94	—	—	—	—	—	—	—	—	—	—	—	—
1862-63,	56	57	113	—	—	—	—	—	—	—	—	—	—	—	—
1863-64,	35	30	65	—	—	—	—	—	—	—	—	—	—	—	—
1864-65,	54	55	109	—	—	—	—	—	—	—	—	—	—	—	—
1865-66,	66	52	118	—	—	—	—	—	—	—	—	—	—	—	—
1866-67,	42	69	111	—	—	—	—	—	—	—	—	—	—	—	—
1867-68,	54	71	125	—	—	—	—	—	—	—	—	—	—	—	—
1868-69,	72	64	136	—	—	—	—	—	1	—	—	—	—	—	—
1869-70,	80	103	183	—	—	—	—	—	—	—	—	—	—	—	—
1870-71,	93	88	181	—	—	—	—	—	2	—	—	—	—	—	—
1871-72,	83	85	168	—	—	—	—	—	—	—	—	—	—	—	—
1872-73,	89	69	158	—	—	—	—	—	—	—	—	—	—	—	—
1873-74,	86	69	155	—	—	—	—	—	—	—	—	—	—	—	—

	1,949	1,988	3,887	22	8	30	5	4	9	22	31	53	26	7	33	2	1	3	17	5	22
Totals, . . .	1,949	1,988	3,887	22	8	30	5	4	9	22	31	53	26	7	33	2	1	3	17	5	22
1874-75, . . .	61	62	123	-	-	-	-	-	-	-	1	1	2	1	1	-	-	-	-	-	-
1875-76, . . .	63	63	126	-	-	-	-	-	-	-	-	1	2	2	2	-	-	-	-	-	-
1876-77, . . .	55	55	110	-	-	-	-	-	-	-	-	1	1	2	2	-	-	-	-	-	-
1877-78, . . .	31	24	55	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-
1878-79, . . .	49	83	83	-	-	-	-	-	-	-	1	2	3	-	-	-	-	-	-	-	-
1879-80, . . .	50	47	97	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
1880-81, . . .	48	49	97	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	-	-	-
1881-82, . . .	50	52	102	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-
1882-83, . . .	65	52	117	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1883-84, . . .	37	58	95	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-
1884-85, . . .	53	46	99	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
1885-86, . . .	63	73	136	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	-	-	-
1886-87, . . .	58	61	119	-	-	-	-	-	-	-	1	2	2	2	2	-	-	-	-	-	-
1887-88, . . .	62	60	122	6	5	11	1	1	2	2	13	15	2	2	2	-	-	-	-	-	-
1888-89, . . .	78	85	113	16	3	19	3	1	4	11	6	17	10	1	11	2	1	3	5	1	6



1874-75, ..	14	16	30	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	10	6	16
1875-76, ..	13	14	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	5
1876-77, ..	13	16	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	7	16
1877-78, ..	9	12	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3	5
1878-79, ..	14	9	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	7
1879-80, ..	8	10	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	9	15
1880-81, ..	9	17	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	6	14
1881-82, ..	12	10	22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	11	17
1882-83, ..	13	17	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	16	22
1883-84, ..	24	17	41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	11	21
1884-85, ..	13	24	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	16	29
1885-86, ..	22	25	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	23	40
1886-87, ..	14	15	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	8	15
1887-88, ..	25	19	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	38	73
1888-89, ..	20	22	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	38	82
Totals, .	432	410	842	5	7	12	1	2	3	3	9	12	9	1	10	1	2	3	217	229	446

## 24. Relapsed Cases Admitted in Each Year, and Discharged in 1888-89.

YEARS.	ADMITTED.			CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.												REMAINING SEPT. 30, 1889.				
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.	Totals.	Males.	Females.	Totals.
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.					
1858, — 2 months,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1858-59, . . .	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1859-60, . . .	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1860-61, . . .	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1861-62, . . .	6	2	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1862-63, . . .	5	8	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1863-64, . . .	6	10	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1864-65, . . .	8	4	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1865-66, . . .	4	3	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1866-67, . . .	11	6	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1867-68, . . .	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1868-69, . . .	6	9	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1869-70, . . .	5	4	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1870-71, . . .	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1871-72, . . .	8	6	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1872-73, . . .	6	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1873-74, . . .	7	8	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1874-75, . . .	2	5	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1875-76, . . .	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]



25. Operations of the Hospital, from the Beginning, in Each Year.

	1855.	1856-59.	1859-60.	1860-61.	1861-62.	1862-63.	1863-64.	1864-65.	1865-66.	1866-67.	1867-68.	1868-69.	1869-70.	1870-71.	1871-72.	1872-73.	1873-74.	1874-75.	1875-76.	1876-77.	1877-78.	1878-79.	1879-80.	1880-81.	1881-82.	1882-83.	1883-84.	1884-85.	1885-86.	1886-87.	1887-88.	1888-89.	
ADMITTED.	Males, ..	99	45	73	70	64	69	48	70	75	61	68	84	90	101	102	105	75	76	68	40	63	59	57	62	78	61	66	85	72	87	98	
	Females, ..	129	48	94	62	48	68	45	64	61	77	84	85	112	102	98	79	88	77	71	36	43	58	66	62	69	75	70	98	76	79	57	
	Totals,	228	93	167	122	112	137	93	134	136	138	152	169	202	211	199	181	193	163	153	139	76	106	117	123	124	147	136	136	183	148	166	155
Recovered.	Males, ..	-	18	-	-	19	-	30	17	15	22	19	31	23	16	25	19	25	16	19	15	7	13	16	7	13	11	9	17	10	16	23	27
	Females, ..	-	15	-	-	15	-	18	16	9	19	17	18	27	16	29	12	13	13	18	19	13	12	13	15	17	16	12	19	8	13	15	
	Totals,	-	33	33	35	34	28	48	33	24	41	36	49	50	43	40	48	37	39	32	33	26	26	28	28	28	25	29	29	24	36	42	
Much Improved.	Males, ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	6	4	9	6	4	8	5	3	6	
	Females, ..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	9	-	11	5	2	3	6	6	
	Totals,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	13	13	9	17	9	10	8	9	12	
Improved.	Males, ..	4	9	-	-	25	-	20	14	13	18	20	23	15	23	33	37	24	21	18	8	17	15	11	15	7	18	16	12	23	36	25	25
	Females, ..	-	9	-	-	15	-	18	13	7	15	28	28	43	41	27	22	19	24	31	13	27	18	12	15	14	16	19	17	36	31	22	40
	Totals,	4	18	18	26	40	25	38	27	20	33	48	51	58	64	60	59	43	45	49	21	44	28	23	30	21	33	35	29	59	67	47	65
Unimproved.	Males, ..	2	6	-	-	9	-	4	8	5	5	9	20	22	31	22	23	17	24	15	16	11	9	6	14	21	16	10	20	21	12	35	
	Females, ..	2	4	-	-	4	-	5	7	3	4	8	43	34	30	27	29	18	21	23	17	13	3	10	10	13	14	20	16	23	16	17	8
	Totals,	4	10	4	10	13	7	9	15	8	9	17	63	56	61	49	52	45	38	47	32	29	14	19	16	27	35	36	28	43	37	39	43

DISCHARGED.



26. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	55.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84
1885-86, . . . .	140.23	270.52	63.61	474.36
1886-87, . . . .	122.78	289.38	66.00	478.16
1887-88, . . . .	112.17	294.01	64.01	470.19
1888-89, . . . .	104.67	303.01	61.31	468.99

27. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1888.</b>		
October, . . . . .	50,900	1,641.93
November, . . . . .	56,300	1,876.66
December, . . . . .	72,700	2,345.16
<b>1889.</b>		
January, . . . . .	67,700	2,183.87
February, . . . . .	51,700	1,846.43
March, . . . . .	45,050	1,453.23
April, . . . . .	34,600	1,153.33
May, . . . . .	23,700	764.52
June, . . . . .	19,900	663.33
July, . . . . .	22,800	735.48
August, . . . . .	27,900	900.00
September, . . . . .	37,700	1,256.66
Total, . . . . .	510,950	16,820.60



## 28. Supplies for the Several Departments for the Year 1888-89 — Concluded.

	Spoons.	Class Casters.	Table Spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Rollers.	Wash Basins.	Brooms.	Soap, pounds.	Whisks.	Dust Brushes.	Scrub Brushes.	Dust Pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe Brushes.	Spools Thread.	Papers Needles.	Papers Pins.	Rubber Chambers.	
<i>Men's Department.</i>																										
Upper 1st Hall,	36	-	1	18	-	-	-	12	-	-	14	44	2	2	1	2	2	-	1	8	2	2	2	-	2	
2d Hall,	34	-	3	50	-	6	1	-	-	-	21	58	2	3	1	-	2	1	1	7	4	4	-	1		
3d and 4th Halls,	12	-	-	-	18	12	-	12	18	-	27	72	2	2	4	2	3	2	3	10	-	3	-	-		
Middle 1st Hall,	30	-	-	-	-	-	-	12	-	-	11	66	3	1	1	2	1	2	2	8	-	1	-	-		
2d Hall,	30	-	1	-	24	-	-	-	24	-	18	68	2	2	5	2	2	2	3	10	-	1	-	-		
3d and 4th Halls,	-	-	-	10	6	6	1	24	12	1	19	90	2	4	3	1	4	3	3	13	2	3	-	-		
Lower 1st Hall,	28	-	1	-	-	-	-	6	12	-	11	14	1	2	1	2	3	3	14	7	2	1	-	-		
2d Hall,	16	-	1	-	26	-	-	26	-	-	26	70	1	2	2	1	3	-	17	4	2	2	-	-		
3d and 4th Halls,	-	-	-	-	-	-	-	-	12	-	19	62	-	-	2	-	4	3	-	4	-	2	-	-		
<i>Women's Department.</i>																										
Upper 1st Hall,	12	-	2	24	-	-	-	-	-	-	8	44	1	1	1	1	1	2	-	-	-	4	1	4	6	
2d Hall,	32	-	2	48	-	-	-	6	-	-	23	46	3	1	1	1	4	1	-	1	1	14	2	6		
3d Hall,	68	-	-	-	-	9	-	18	-	-	11	54	-	3	2	1	6	2	-	-	-	16	3	8		
4th Hall,	36	-	2	-	-	-	36	6	-	-	9	64	1	2	-	-	2	1	-	-	-	2	1	9		
Middle 1st Hall,	-	-	-	-	-	6	12	12	-	-	16	58	-	1	1	-	2	2	-	-	-	11	1	5		
2d Hall,	12	-	1	-	12	30	24	-	-	-	27	88	-	1	1	2	13	6	-	-	-	26	8	13		
3d Hall,	-	-	8	-	-	12	6	6	-	-	21	60	2	1	1	2	6	2	-	-	-	19	8	20		
4th Hall,	-	-	3	-	-	6	12	6	-	-	18	46	2	3	1	2	7	1	-	-	-	6	2	5		
Lower 1st Hall,	24	-	5	-	6	-	12	6	-	-	14	48	1	3	1	1	6	4	-	-	-	24	3	3		
2d Hall,	-	-	-	-	-	-	12	-	-	-	15	102	1	1	-	1	15	4	-	-	-	20	3	24		
3d Hall,	-	-	-	-	-	-	12	-	-	-	16	64	-	1	-	1	9	-	-	-	-	16	3	11		
4th Hall,	-	-	-	-	-	-	-	13	12	-	6	22	1	1	-	1	1	6	-	-	-	16	1	5		
Kitchen,	-	-	-	2	24	24	-	-	-	-	64	69	1	1	2	1	1	1	-	-	-	-	-	-	-	
Rear,	-	-	1	-	6	6	-	24	-	-	74	152	2	5	-	-	5	12	-	1	-	-	1	10		
Centre,	-	-	-	-	-	-	-	-	-	-	11	55	2	5	-	-	2	3	-	1	-	-	-	-	-	
Aggregates,	370	-	32	142	64	93	116	183	102	4	807	1,496	25	43	28	17	98	60	10	77	7	190	32	124	8	

29. *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1888.</b>								
October, .	757	55	196	251	258	51	373	424
November, .	644	90	185	275	226	48	370	418
December, .	627	93	178	271	233	47	336	383
<b>1889.</b>								
January, .	688	93	171	264	227	48	404	452
February, .	594	84	146	230	250	45	357	402
March, .	607	93	179	272	311	47	355	402
April, .	760	93	175	268	265	47	319	366
May, .	814	90	189	279	226	50	378	428
June, .	779	90	180	270	196	45	338	383
July, .	791	90	190	280	216	49	356	405
August, .	762	93	179	272	299	53	344	397
September, .	643	90	174	264	234	46	336	382
Totals, .	8,466	1,054	2,142	3,196	2,941	576	4,266	4,842

The patients whose work is recorded in this table were employed as many hours in the day as were the employees in each of the several departments, respectively. The total number of days' work is 19,445, to which may be added 221 days by men in the mattress room, making an aggregate of 19,666 days.

*30. List of Articles made in the Sewing-Room.*

Dresses, . . . . .	260	Curtains, . . . . .	84
Waists, . . . . .	13	Sheets, . . . . .	801
Chemises, . . . . .	204	Pillow cases, . . . . .	967
Drawers, . . . . .	134	Spreads hemmed, . . . . .	91
Skirts, . . . . .	159	Bed ticks, . . . . .	55
Night dresses, . . . . .	21	Bolster cases, . . . . .	39
Hats trimmed, . . . . .	36	Clothes bags, . . . . .	14
Caps, . . . . .	313	Bureau covers, . . . . .	34
Aprons, . . . . .	193	Dish towels, . . . . .	469
Collars, . . . . .	194	Roller towels, . . . . .	164
Shirts, . . . . .	194	Carpets made, . . . . .	17
Camisoles, . . . . .	21	Carpet strips hemmed, . . . . .	85
Suspenders, pairs, . . . . .	44	Boys' suits made, . . . . .	2
Table cloths, . . . . .	37	Ox blankets, . . . . .	2
Napkins hemmed, . . . . .	138	Articles repaired, . . . . .	23,293

*31. Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	15
Hair mattresses made, new ticks, . . . . .	27
Hair mattresses overhauled, hair repicked, . . . . .	136
Hair pillows overhauled, hair repicked, . . . . .	12
Hair pillows overhauled, . . . . .	13

32. *Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 23
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	954 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.40	1 86
1886-87, . . . . .	854 97	478.54	1 79
1887-88, . . . . .	901 74	470.25	1 91
1888-89, . . . . .	955 51	469.10	2 04



*33. Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From What Cause.
Charles E. Forbes,*	Northampton, . .	1856	1857	Term expired.
Lucien C. Boynton,*	Uxbridge, . . .	1856	1858	" "
Eliphalet Trask, . .	Springfield, . .	1856	1875	" "
John C. Russell,* . .	Great Barrington, .	1856	1859	Resigned.
Horace Lyman, . . .	Greenfield, . . .	1856	1857	Removed.
Charles Smith, . . .	Northampton, . .	1857	1860	Resigned.
Luther V. Bell,* . .	Somerville, . . .	1857	1859	"
Zebina L. Raymond,*	Greenfield, . . .	1858	1859	"
Franklin Ripley,* . .	Greenfield, . . .	1859	1860	Died in office.
Edward Dickinson,* .	Amherst, . . . .	1859	1864	Resigned.
Walter Laffin,* . . .	Pittsfield, . . . .	1859	1866	Term expired.
Silas M. Smith,* . . .	Northampton, . .	1860	1863	" "
Charles Allen, . . .	Greenfield, . . .	1860	1861	Resigned.
Alfred R. Field,* . .	Greenfield, . . .	1861	1864	"
Edward Hitchcock, .	Amherst, . . . .	1863	1879	"
Silas M. Smith,* . . .	Northampton, . .	1864	1887	Died in office.
Edmund H. Sawyer,* .	Easthampton, . .	1864	1879	" "
Henry L. Sabin,* . . .	Williamstown, . .	1866	1876	Term expired.
Adams C. Deane, . . .	Greenfield, . . .	1875	-	Still in office.
Henry W. Taft, . . .	Pittsfield, . . . .	1876	-	" "
William M. Gaylord, .	Northampton, . .	1879	1883	Term expired.
Lyman D. James, . . .	Williamsburg, . .	1879	-	Still in office.
Christopher Merritt, .	Springfield, . . .	1883	1888	Term expired.
Sarah A. Woodworth, .	Chicopee, . . . .	1884	-	Still in office.
Sarah M. Butler, . . .	Northampton, . .	1884	-	" "
John L. Otis, . . . .	Florence, . . . .	1887	-	" "
N. A. Leonard, . . . .	Springfield, . . .	1888	-	" "

\* Deceased.

34. *Officers and Employees.*

Time employed, Oct. 1, 1889.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M.D., superintendent,	20	9	16
John A. Houston, M.D., 1st assistant physician,	—	—	7
Charles M. Holmes, M.D., 2d assistant physician,	—	2	21
Emily F. Wells, M.D., female physician,	4	9	—
Walter B. Welton, clerk,	23	7	16
John Mercier, farmer,	22	2	—
Danford Morse, engineer,	24	6	9
Robert H. Gallivan, supervisor,	16	5	13
Lucy A. Gilbert, supervisor,	22	7	20
F. Josephus Rice, steward,	30	11	26
Minnie A. Smith, seamstress,	1	8	27
Lizzie E. Rice, laundress,	—	2	6
George B. Walker, baker,	5	3	22
Minne A. Collier, assistant clerk,	—	9	20
Lucie L. Barrett, assistant supervisor,	3	—	12
Bradamant Fairbanks, assistant seamstress,	—	5	14
Mattie G. Jones, assistant laundress,	—	1	11
Emma Smith, assistant laundress,	—	2	20
Henry W. Estey, attendant,	7	6	7
Thomas Lavelle, attendant,	3	6	23
Anson T. Hale, attendant,	2	5	—
Fred A. Shumway, attendant,	1	5	25
Jeremiah J. Regan, attendant,	—	9	3
John A. Vincent, attendant,	—	8	26
Ernest Aldrich, attendant,	—	6	20
Daniel W. Webster, attendant,	—	6	9
James F. Wells, attendant,	—	4	8
Edward N. Aldrich, attendant,	—	2	29
W. J. Bond, attendant,	—	2	1
George M. Locke, attendant,	—	1	7
Emory L. Hill, attendant,	—	—	14
Jane McGuire, attendant,	14	5	5
Cecile Riel, attendant,	12	11	25
Jeanette McLean, attendant,	6	1	3
Philomene Goyette, attendant,	6	6	13
Effie Clapp, attendant,	3	3	17
Alice A. Hawkes, attendant,	1	9	27
Celeste Goyette, attendant,	4	6	16
Harriet L. Strong, attendant,	2	6	13
Adeline D. Morgan, attendant,	1	—	12
Marion Darling, attendant,	—	6	15
Katy A. Cook, attendant,	—	2	5
Emma A. Shumway, attendant,	—	2	2
Mary Sweeney, attendant,	—	1	23
Flora E. Jones, attendant,	—	2	14
Mary McClellan, attendant,	1	2	13
Jessie A. Rand, night watch,	8	3	11
Florence Bryant, farmer's dining room,	—	—	2
Hattie Darling, centre,	2	10	—

34. *Officers and Employees — Concluded.*

NAMES.	Years.	Months.	Days.
Belle Warren, centre, . . . . .	—	5	6
Ida D. Hyde, centre, . . . . .	4	4	6
Mary Mangan, cook, . . . . .	1	2	5
Alice A. Miller, assistant cook, . . . . .	—	5	14
Maggie Howe, assistant cook, . . . . .	—	2	29
Mary A. Carnes, rear, . . . . .	6	3	—
William C. Hall, assistant engineer, . . . . .	24	—	20
Nicholas Riel, night engineer, . . . . .	13	9	25
Moses Bartlett, watchman, . . . . .	—	6	25
Sifroi Belville, carpenter, . . . . .	19	5	7
Walter Tower, carpenter, . . . . .	11	10	—
Alfred Parenteau, painter, . . . . .	24	1	18
David Mercier, coachman, . . . . .	12	7	14
Benjamin Rockwell, assistant farmer, . . . . .	22	4	—
Henry Wilson, assistant farmer, . . . . .	10	5	8
James Madden, assistant farmer, . . . . .	14	—	29
Eugene Sullivan, assistant farmer, . . . . .	14	5	—
George E. Hunter, assistant farmer, . . . . .	3	5	19
Hermon Miller, assistant farmer, . . . . .	—	5	14
George W. Braman, assistant farmer, . . . . .	—	10	8
John Gray, assistant farmer, . . . . .	—	6	4
David McCandless, assistant farmer, . . . . .	—	5	15
Herbert T. Wells, assistant farmer, . . . . .	—	1	4
Albert Holmes, car boy, . . . . .	—	5	18
William A. Rice, assistant baker, . . . . .	—	3	3





THIRTY-FIFTH ANNUAL REPORT

OF

THE TRUSTEES

OF THE

NORTHAMPTON LUNATIC HOSPITAL,

FOR THE

YEAR ENDING SEPTEMBER 30, 1890.

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BOSTON:  
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1891.



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# OFFICERS

## OF THE

### NORTHAMPTON LUNATIC HOSPITAL.

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#### TRUSTEES.

Mrs. SARAH M. BUTLER,	. . . . .	NORTHAMPTON.
ADAMS C. DEANE, M.D.,	. . . . .	GREENFIELD.
HENRY W. TAFT, Esq.,	. . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq.,	. . . . .	WILLIAMSBURG.
NEHEMIAH A. LEONARD, Esq.,	. . . . .	SPRINGFIELD.
Hon. ALVAN BARRUS,	. . . . .	GOSHEN.
Mrs. SARAH A. WOODWORTH,	. . . . .	CHICOPEE.

#### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D.,	. . . . .	<i>Superintendent.</i>
JOHN A. HOUSTON, M.D.,	. . . . .	<i>Assistant Physician.</i>
CHARLES M. HOLMES, M.D.,	. . . . .	<i>Assistant Physician.</i>
EMILY F. WELLS, M.D.,	. . . . .	<i>Female Physician.</i>
WALTER B. WELTON,	. . . . .	<i>Clerk.</i>
JOHN MERCIER,	. . . . .	<i>Farmer.</i>
DANFORD MORSE,	. . . . .	<i>Engineer.</i>

#### TREASURER.

EDWARD B. NIMS,	. . . . .	NORTHAMPTON.
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Office at the Hospital.

#### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN,	. . . . .	<i>Male Supervisor.</i>
LUCY A. GILBERT,	. . . . .	<i>Female Supervisor.</i>
THOMAS C. POWERS,	. . . . .	<i>Steward.</i>
MINNIE A. SMITH,	. . . . .	<i>Seamstress.</i>
LIZZIE E. RICE,	. . . . .	<i>Laundress.</i>
GEORGE B. WALKER,	. . . . .	<i>Baker.</i>



# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The trustees herewith present for your consideration the thirty-fifth annual report of the Northampton Lunatic Hospital, giving in detail the operations, improvements and statistics for the year 1889-90. A comparison with the report of the previous year shows that the number of admissions within the year was larger by 15. The number of patients in the hospital was larger by 49 at the end of the year than at the end of the previous year.

The rate of mortality — 3.4 per cent. on the whole number treated, and 4.46 on the daily average population — was the smallest for any year in the history of the hospital. The financial condition of the hospital remains good.

We are again able to state that there has been no serious accident within the year, no case of contagious disease, and an unusually small amount of illness among the patients. Taking these facts as our basis, we must regard the results of the year as a proof of successful work and careful management.

The number of patients in the hospital Oct. 1, 1889, was 446, 217 of whom were men, and 229 women. Within the year 91 men and 79 women, making a total of 170, have been admitted. The total number under treatment for the year was 616, of whom 308 were men and 308 were women. The number of patients who left the hospital was 121, of whom 65 were men and 56 were women. Twenty-one persons died, — 12 men and 9 women. The number remaining

Sept. 30, 1890, was 495, of whom 243 were men and 252 were women. The average daily number was 470.5. The largest number in the hospital on any one day was 495, the smallest 439. Of the patients remaining in the hospital at the end of the year, 14 have been resident over thirty years, 22 between twenty and thirty years, 91 between ten and twenty years, 101 between five and ten years, 157 between one and five years, and 110 less than one year. Of the 121 patients who were discharged, 32 were discharged as recovered, 14 as much improved, 34 as improved, 17 as unimproved and 3 as not insane.

Your attention is called to the fact that the increase of patients in the hospital within the year was a natural one. All the commitments for the year were from the western district of the State. It is apparent that, unless relief is obtained from some quarter, the hospital is likely to be overcrowded in the ensuing year. As the other State hospitals are all full, it is not probable that much relief will be obtained until the new hospital for the chronic insane is erected.

The repairs and improvements in the hospital have been continued during the year. The amount of money expended each year for necessary repairs is large, and will continue to be so, on account of the length of time which the buildings have been in use. The whole interior wood-finishing must be soon renewed. Many new floors have been relaid; new bath-rooms and drying-closets have been made. A new departure was made in the erection of a green-house, which is now in process of construction. It is in size one hundred feet by twenty. It is designed to make use of the later and improved ideas in construction and heating.

The improvements have been continued on the farm, in improving the drainage and reclaiming waste lands. A new face stone wall was built, enclosing a large yard for farm purposes. The area of the farm has been increased by the purchase of about six acres of land, known as the Arnold lot, on Chapel Street. This lot contains one of the best building sites in the vicinity of the hospital.

The original plans of the hospital building were defective in some respects. New plans are now being made, which have for their object the remedying of these defects, and

which will improve the lighting and ventilation of the halls and rooms. It is also proposed to enlarge and improve the chapel, which has been too small since the population of the hospital has reached its present numbers. There is evident need of improved appliances and conveniences for the frequent assemblies and entertainments which are held there. The rear or working wing of the hospital includes, besides the chapel, the lodging-rooms for employees, the laundry, sewing-room, bakery, kitchen and store-rooms.

More room is needed, which can be obtained only by enlarging and changing the building. The act of the Legislature, which requires fire-escapes on all the buildings, will require a considerable outlay of money. To make these improvements and to bring the hospital up to the desired standard of completeness will make it necessary for us to ask for a liberal appropriation of money from the next Legislature.

The monthly meetings of the Board have been held regularly, at which the hospital has been thoroughly inspected, and the vouchers for all disbursements have been approved. The treasurer's report gives in detail the moneys received and expended, and the present financial standing of the hospital. The amount received for the support of each State, town or city patient, including clothing and damage, has been \$3.25 per week. The average weekly cost for all patients has been \$3.51. The total amount charged for each class of patients for the year is as follows:—

State patients, . . . . .	\$16,544 81
Town patients, . . . . .	52,656 07
Private patients, . . . . .	16,287 03
Total, . . . . .	<hr/> \$85,487 91

A financial statement, giving the amount due the hospital, the money on hand, and the value of all purchased supplies on hand, together with the liabilities, has been presented to the Board by the treasurer at each of the monthly meetings. This enables us to see at a glance the amount of the real or working surplus of the institution. The income from the products of the farm is gradually increasing, and assists materially in the financial management of the hospital.

The staff of officers remains the same as at the beginning of the year. We have to record the death of Mr. F. J. Rice, who had been employed in the hospital for thirty-one years. For a large portion of that time he was at the head of the kitchen department. He was faithful and conscientious in the performance of his work, and thoroughly loyal to the interests of the institution.

The trustees take pleasure in commending the faithful services of the physicians and officers in charge of the institution.

SARAH M. BUTLER.  
ADAMS C. DEANE.  
HENRY W. TAFT.  
LYMAN D. JAMES.  
NEHEMIAH A. LEONARD.  
ALVAN BARRUS.  
SARAH A. WOODWORTH.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1890.

Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, first, . . . . .	" 1,200 00
Assistant physician, second, . . . . .	" 500 00
Female physician, . . . . .	" 900 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 900 00
Assistant clerk, . . . . .	per month, 20 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 16 00
Laundress, . . . . .	" 18 00
Assistant laundresses (2), . . . . .	" 18 00
Assistant laundress, . . . . .	" 16 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 50 00
Assistant steward, . . . . .	" 35 00
Attendants (male, 7), . . . . .	" 30 00
Attendant (male), . . . . .	" 25 00
Attendant (male), . . . . .	" 23 00
Attendants (male, 4), . . . . .	" 21 00
Attendants (female, 13), . . . . .	" 18 00
Attendants (female, 2), . . . . .	" 14 00
Night watch (female), . . . . .	" 14 00
Housework, centre (female), . . . . .	" 17 00
Housework, centre (female), . . . . .	" 15 00
Housework, centre (female), . . . . .	" 14 00
Cook (female), . . . . .	" 18 00
Assistant cook (male), . . . . .	" 30 00
Assistant cook (female), . . . . .	" 16 00



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Assistant cook (female), . . . . .	per month,	\$15 00
Assistant cooks (female, 2), . . . . .	"	14 00
Assistant baker (male), . . . . .	"	25 00
Farmer's dining room (female), . . . . .	"	15 00
Housework, rear building (female), . . . . .	"	15 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Assistant engineer, . . . . .	"	32 00
Night engineer, and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	30 00
Car boy, . . . . .	"	16 00
Farm hands (2), . . . . .	"	30 00
Farm hands (3), . . . . .	"	28 00
Farm hand, . . . . .	"	26 00
Farm hands (2), . . . . .	"	25 00
Farm hands (2), . . . . .	"	23 00

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1890.

---

Live stock on hand, . . . . .	\$8,436 00
Produce of farm on hand, . . . . .	10,558 20
Carriages and agricultural implements, . . . . .	3,670 00
Machinery and mechanical fixtures, . . . . .	5,915 00
Beds and bedding in inmates' department, . . . . .	12,550 00
Other furniture in inmates' department, . . . . .	7,100 00
Personal property of State in superintendent's department,*	8,900 00
Ready-made clothing, . . . . .	2,715 77
Dry goods, . . . . .	4,840 74
Provisions and groceries, . . . . .	4,595 50
Drugs and medicine, . . . . .	550 00
Fuel, . . . . .	5,399 17
Library, . . . . .	1,000 00
Paints and oils, . . . . .	475 00
<b>Total, . . . . .</b>	<b>\$76,705 38</b>

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing room and other apartments.

## TREASURER'S REPORT.

---

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as treasurer of the hospital, for the fiscal year ending with the 30th of September, 1890. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

### ASSETS.

Four hundred and ninety-three acres of land,	\$52,121 00
Hospital building, . . . . .	250,000 00
Farm house, \$1,900; brick house, \$1,900, .	3,800 00
Four dwellings, . . . . .	2,000 00
Storehouse and shops, . . . . .	15,000 00
Two barns, . . . . .	5,150 00
Horse stable, . . . . .	1,800 00
Scullery and wood house, . . . . .	650 00
Lumber house, . . . . .	1,000 00
Pump house, . . . . .	900 00
Cart shed, . . . . .	460 00
Coal house, . . . . .	125 00
Piggery, . . . . .	3,000 00
Cattle shed, . . . . .	1,200 00
Fire-proofs for oils and paints, . . . . .	500 00
Two ice houses, . . . . .	450 00
Total, . . . . .	\$338,146 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the trustee's report, . . . . .	\$76,705 38
------------------------------------------------------------------------------------------	-------------

### RECEIPTS.

Cash on hand Sept. 30, 1889, . . . . .	\$18,868 96
Received from State treasurer, . . . . .	16,384 41
from towns, . . . . .	53,733 24
from individuals, . . . . .	16,982 73
from sales, . . . . .	2,316 63
from interest, . . . . .	748 54
Total, . . . . .	\$109,034 51

## PAYMENTS.

1. Salaries, wages and labor, . . . . .	\$29,896 81	
2. Provisions and supplies:—		
Meats of all kinds, . . . . .	\$4,575 34	
Fish of all kinds, . . . . .	1,561 08	
Fruit and vegetables, . . . . .	2,570 76	
Flour, . . . . .	2,661 50	
Grain and meal for table, . . . . .	667 17	
Tea, coffee and chocolate, . . . . .	987 36	
Grain and meal for stock, . . . . .	2,508 84	
Sugar and molasses, . . . . .	2,065 76	
Butter and cheese, . . . . .	4,356 91	
Salt and other groceries, . . . . .	2,060 11	
All other provisions, . . . . .	806 56	
		<u>24,821 39</u>
3. Clothing, . . . . .		2,491 75
4. Fuel and lights, . . . . .		6,073 00
5. Medicines and medical supplies, . . . . .		1,251 80
6. Furniture, beds and bedding, . . . . .		4,641 26
7. Transportation and travelling expenses, . . . . .		300 51
8. Ordinary construction and repairs, . . . . .		3,213 09
9. Extraordinary construction and repairs, . . . . .		2,204 06
10. Miscellaneous expenses, including:—		
1. Real estate, . . . . .	\$2,015 00	
2. Farm stock, . . . . .	2,044 00	
3. Farm supplies, . . . . .	4,069 62	
4. Water, . . . . .	1,172 81	
5. Minor expenses, . . . . .	1,227 92	
6. Contingencies, . . . . .	730 27	
		<u>11,259 62</u>
Total expenditures, . . . . .		\$86,153 29

## LIABILITIES.

Salaries and wages due Oct. 1, 1890, . . . . .	\$3,932 25
Miscellaneous bills due, . . . . .	2,188 76
	<u>\$6,121 01</u>
Due the institution for board Oct. 1, 1890:—	
From State, . . . . .	\$4,211 94
town, . . . . .	13,767 87
individuals, . . . . .	4,772 67
Due from treasurer, Sept. 30, 1890, . . . . .	22,881 22
	<u>\$45,633 70</u>

## SUMMARY.

Total receipts, . . . . .	\$109,034 51
Total payments, . . . . .	86,153 29
	<u>\$22,881 22</u>
Cash on hand Sept. 30, 1890, . . . . .	\$22,881 22

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Total liabilities, . . . . .	\$6,121 01
Total debts due the institution, . . . . .	45,633 70
Total expenditures, . . . . .	86,153 29

Dividing this sum by 470.5, the average number of patients, we have the average expenditure per patient, . \$183 11<sup>11</sup>/<sub>100</sub>  
 And the average weekly expenditure per patient, . . 3 51<sup>11</sup>/<sub>100</sub>

Deducting from the total expenditure, . . . . .	\$86,153 29
The extraordinary expenses, . . . . .	4,219 06

We have the current expenses, . . . . . \$81,934 23

Dividing \$81,934.23 by 470.5, the average number of patients, we have the average expenditure per patient, . \$174 13<sup>11</sup>/<sub>100</sub>  
 Making the average weekly expenditure per patient, . . 3 33<sup>11</sup>/<sub>100</sub>

Deducting from the current expenses, . . . . .	\$81,934 23
The increase of personal assets, . . . . .	2,206 65

We have the necessary cost for the year, . . . . \$79,727 58

Dividing \$79,727.58 by 470.5, the average number of patients, we have, as the annual cost of each patient, . \$169 45<sup>11</sup>/<sub>100</sub>  
 Making the average weekly cost of each patient, . . 3 24<sup>11</sup>/<sub>100</sub>

EDWARD B. NIMS,  
*Treasurer.*

We have examined, as auditors, the accounts of the treasurer, and found a satisfactory voucher for every entry.

A. C. DEANE,  
 ALVAN BARRUS,  
*Auditors.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The history of the events of the past year, the details of the work which has been done and the results which have been accomplished, are for the most part already well known to you. It is well, however, to analyze these results, and to place them upon record, in order that you may reach a more complete understanding of the condition of the hospital, be able to compare the past with previous years, and have them for reference in the future. It is well also that the public should have knowledge of these facts, as they are the patrons of the institution. In presenting the thirty-fifth annual report of this hospital for the year 1889-90, your attention is called to the following table, which gives the movement of population and the general statistics:—

### 1. General Statistics.

	Males.	Females.	Total.
Patients in hospital Oct. 1, 1889, . . . .	217	229	446
Admitted within the year, . . . . .	91	79	170
Whole number of cases within the year, . .	308	308	616
Discharged within the year, . . . . .	65	56	121
Viz : as recovered, . . . . .	18	14	32
much improved, . . . . .	5	9	14
improved, . . . . .	17	17	34
unimproved, . . . . .	12	5	17
not insane, . . . . .	1	2	3
Deaths, . . . . .	12	9	21
Patients remaining Sept. 30, 1890, . . . .	243	252	495
Viz. : supported as State patients, . . . .	56	50	106
town patients, . . . . .	152	166	318
private patients, . . . . .	35	36	71
Number of different persons within the year, .	305	306	611
Persons admitted, . . . . .	89	79	168
Persons recovered, . . . . .	18	14	32
Daily average number of patients, . . . .	228.58	241.92	470.5

On the 1st of October, 1890, two women and three men were transferred from State to town charge. Hence the new year will begin with —

	Males.	Females.	Totals.
State patients, . . . . .	53	48	101
Town patients, . . . . .	155	168	323

The total number of cases admitted within the year was 170, — 91 men and 79 women. At the beginning of the year there were in the hospital 217 men and 229 women, making in all 446 persons; which makes the whole number under treatment 616, — 308 men and 308 women. The daily average was 470.5: men, 228.58; women, 241.92. One hundred and twenty-one cases were discharged, including 21 deaths: men, 65; women, 56. The number remaining at the end of the year was 495 (men, 243; women, 252), an increase for the year of 49. As the increase in the number of cases admitted was but 15 over that of the previous year, the lessened number of discharges will account for the gain in population. The large proportion of incurable and protracted cases admitted is the evident reason for this change. Of those discharged, 75 returned to their homes, 5 were removed to almshouses, 12 were removed out of the State, 2 eloped, 6 were removed to other hospitals. One man was admitted and discharged twice; one man was admitted, discharged and readmitted; one man was discharged and readmitted, two women were discharged and readmitted, all within the year; which makes the number of persons admitted within the year 168, — 89 men and 79 women. The number of persons discharged was 120, — 64 men and 56 women. The whole number of persons under treatment was 611, — 305 men and 306 women. The largest number of patients in the house on any one day was 495, and the smallest 439. The number of first admissions of cases was 134; of second admissions, 26; of third admissions, 5; of fourth, 3; of fifth, 1; and of fifteenth, 1.

## STATUS OF PATIENTS.

The relative proportion of the different classes of patients has not changed materially within the year. At the beginning there were in the hospital 88 State, 297 town and 61 private patients. Of the 170 cases admitted, 48 were supported by the State, 93 by towns and cities, and 29 by individuals; of the 121 discharged, 25 were State, 75 town and 21 private patients; leaving the number at the end of the year, respectively, 106 State, 318 town and 71 private.

The weekly average of the different classes, as given in the weekly returns which are made to the State Board of Lunacy and Charity, is given in the following table, showing the comparative standing for two years past:—

	1888-89.			1889-90.		
	Males.	Females.	Totals	Males.	Females.	Totals.
State patients, .	56.56	48.11	104.67	48.42	48.44	96.86
Town patients, .	145.51	157.50	303.01	151.46	159.71	311.17
Private patients, .	29.38	31.93	61.31	28.42	33.65	62.07

The custom which prevails in this State of supporting the patients in the hospitals in the different classes, has undoubtedly some advantages over the method pursued in some States of supporting such patients by direct State appropriations. The friends of patients often desire that they shall have better accommodations than the legal rate will give them, and also have a strong feeling of pride in maintaining them, and not allowing them to become objects of charity. This custom also brings individuals and towns and cities into more intimate personal relations with the hospitals. The personal interest is stronger in those patients whose bills they pay, and influences are often brought to bear on the patient which are very effective.

I fail to see any good reason why patients in the hospitals should not be cared for by the towns and cities as well as other persons who are dependent. If all patients in the



hospitals were supported by the State, there would undoubtedly be a strong inclination on the part of the towns and cities to avail themselves of the State provision, and thereby increase the number of patients in the hospitals. Under the present arrangement, individuals, towns and cities often have a strong motive for securing the discharge of mild and incurable cases, and in procuring homes and occupation for them.

#### RECOVERIES.

Thirty-two patients were discharged as recovered, including 5 inebriates. Of these, 1 had previously been discharged as recovered. It is perhaps proper to say that many who are committed to the hospital under the dipsomaniac act are in the truest sense of the word insane. The per cent. of recoveries, reckoned on the number admitted, is 18.8; on the number discharged, 26.6; on the number discharged, exclusive of death, 32. Of the 17 persons discharged as unimproved, 4 were removed out of the State, 6 were removed by friends to their homes, 3 went to almshouses, 3 to the Massachusetts School for Feeble-minded and 1 to the McLean Asylum.

#### DEATHS.

The past year has been an exceptional one, both in the small amount of sickness which has prevailed and in the comparatively small number of deaths. Twelve men and 9 women died. The rate per cent., reckoned on the whole number of cases under treatment, was 3.4; and, reckoned on the daily average population, 4.46. As will be seen from the accompanying table, this is the lowest percentage for any year since the opening of the hospital. It is gratifying to record this fact, as it is an indication of the good degree of health among the patients, and as it militates against the theory that the small death rate in this hospital was owing largely to the chronic character of its population. There is a regular increase in the number of acute cases admitted each year, without a corresponding increase in the death rate. But one of the deaths which occurred within the year was caused directly by acute disease. This was a case of acute mania, in which death resulted from exhaustion. Two

deaths were caused by Bright's disease, two by exhaustion of chronic mania, and one from exhaustion of senile mania. In three cases paresis was the cause; and in two, phthisis. Cancer, paralysis, epilepsy and old age each caused one death. Three died of chronic brain disease; one man, and one woman who had been for a long time in feeble health, died of apoplexy, having survived several attacks of the same disease. The epidemic "La Grippe," which prevailed so extensively in the winter, occasioned but one serious case of illness among the patients. One man, who had been epileptic for many years, and also had serious disease of the lungs, contracted the disease, which resulted in pneumonia and subsequently in death. One man, who was in the last stage of paresis when admitted, remained five weeks in the hospital, and was removed by friends, at their own request, to his home, where he soon died. All others who left the hospital within the year are living at the present time, as far as known. The last case of suicide occurred in October, 1884. Of the 21 persons who died, 3 were supported by the State, 17 by towns, and 1 by individuals.

The following table gives the yearly number of deaths, and the ratios, since 1858:—

*Deaths and their Ratios, from Sept. 30, 1858, to Oct. 1, 1890.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	318.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17

*Deaths and their Ratios, etc. — Concluded.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.40	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47
1887-88, .	635	470.25	14	17	31	4.88	6.59
1888-89, .	636	469.10	18	7	25	3.93	5.32
1889-90, .	616	470.50	12	9	21	3.40	4.46

### WORSHIP AND ENTERTAINMENT.

Religious services have been held in the chapel regularly on Sabbath afternoons during the year. The attendance at these services is voluntary on the part of the patients. It has been the custom to hold these services on Sabbath afternoons since the opening of the hospital, for all who are willing to attend them and who are in a condition which makes it proper for them to do so. The good order and attention given to the exercises are always noticeable, especially to strangers who are present. Serious interruptions are very rare. The frequent evening entertainments which have been customary for the past twenty-five years were continued through the year, with about the usual variety.

#### *Exercises in Chapel.*

##### 1. ON THE SABBATH:—

Divine worship,	. . . . .	52 days.
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##### 2. ON SECULAR EVENINGS:—

###### (a) *Readings and Recitations, opened and closed with music:—*

The Bible and selections of poetry,	. . . . .	30 days.
The Bible and selections of prose,	. . . . .	4 days.
The Bible and selections of poetry and prose,	. . . . .	18 days.
Miscellaneous selections of prose,	. . . . .	84 days.
Miscellaneous selections of poetry,	. . . . .	4 days.
Miscellaneous selections of poetry and prose,	. . . . .	47 days.

###### (b) *Other Entertainments:—*

Pictures shown with the stereopticon,	. . . . .	9 days.
Concerts,	. . . . .	1 day.
Ventriloquism,	. . . . .	1 day.

###### (c) *Social Assemblies:—*

Quadrille parties,	. . . . .	26 days.
No Assembly,	. . . . .	89 days.

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365 days.

## FARM.

The present year has been a very productive one for the hospital farm, in nearly every crop. The careful and continued good cultivation of the soil is resulting in a gradual increase of products from year to year. The amount of hay harvested is larger than in any former year, and is now sufficient to supply the demand. The apple crop was unusually fine, and demonstrated the advantage of special cultivation.

The experience of each succeeding year confirms the opinion that a well-managed farm is both useful and helpful to a hospital in various ways. The farm now contains about 493 acres. The present stock on the farm consists of 13 horses and colts, 106 head of cattle, 282 swine and 325 fowls. The yearly product of hay is given in the following table :—

1864, estimated, . . . 40 tons.	1878, weighed, . . . 179 tons.
1865, " . . . 62 "	1879, " . . . 144 "
1866, " . . . 42 "	1880, " . . . 154 "
1867, weighed, . . . 82 "	1881, " . . . 213 "
1868, " . . . 86 "	1882, " . . . 170 "
1869, " . . . 91 "	1883, " . . . 197 "
1870, " . . . 74 "	1884, " . . . 174 "
1871, " . . . 75 "	1885, " . . . 251 "
1872, " . . . 91 "	1886, " . . . 269 "
1873, " . . . 84 "	1887, " . . . 302 "
1874, " . . . 120 "	1888, " . . . 305 "
1875, " . . . 100 "	1889, " . . . 331 "
1876, " . . . 111 "	1890, " . . . 336 "
1877, " . . . 154 "	

Sixty-five hogs were slaughtered, the total weight of which was 25,189 pounds. The heaviest weighed 616 pounds.

Special care is taken in feeding the animals to prevent them from contracting disease, and portions of each one which is slaughtered are examined with the microscope, to test the condition.

The amount of pork raised is larger than is consumed. The annexed table gives the yearly product of pork :—

*Pork raised upon the Farm.*

1865, . . . 6,265 pounds.	1878, . . . 14,451 pounds.
1866, . . . 5,443 "	1879, . . . 13,569 "
1867, . . . 7,416 "	1880, . . . 14,729 "
1868, . . . 7,791 "	1881, . . . 15,610 "
1869, . . . 8,469 "	1882, . . . 14,414 "
1870, . . . 7,447 "	1883, . . . 15,612 "
1871, . . . 7,863 "	1884, . . . 10,192*
1872, . . . 11,366 "	1885, . . . 17,544 "
1873, . . . 10,511 "	1886, . . . 21,503 "
1874, . . . 12,024 "	1887, . . . 26,331 "
1875, . . . 12,693 "	1888, . . . 18,465 "
1876, . . . 12,467 "	1889, . . . 19,227 "
1877, . . . 13,605 "	1890, . . . 25,189 "

The total value of the farm products exceeds those of any former year. There were produced within the year 28,050 gallons of milk, one-third of this amount being given in the table of products, the remaining two-thirds being accounted for in the value of the animal and the food consumed. The object and the end sought for in the management of the farm is to cultivate such crops as will most directly meet the wants of the hospital. The value of such crops does not depend upon the prices which such articles will bring in outside markets, but according to their usefulness to the hospital. Hence the variety of products which are cultivated. The price of board of patients is fixed and essentially always the same. There is always a ready home market, and hence very little waste. The profit of the farm depends thus largely upon the cheapness with which such products can be raised. The labor of patients comes in here as an important element; and, while such labor does not receive any direct remuneration, yet it indirectly contributes to the comfort and welfare of the patients by the increased means of support which their labor furnishes.

*List of Farm Products in 1890.*

Hay (first growth of home farm), 232½ tons, . . .	\$3,022 50
Hay (south lot), 24½ tons, . . .	315 25
Hay (Clarke orchard), 14½ tons, . . .	185 25
Hay (aftergrowth of whole farm), 65½ tons, . . .	851 50

\* Quantity diminished by disease.

## 26 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Corn fodder (dry), 27 tons,	\$135 00
Corn, 460 bushels,	267 00
Straw, 11 tons,	110 00
Potatoes, 2,632 bushels,	1,579 20
Broom seed, 50 bushels,	20 00
Broom brush, 900 pounds,	54 00
Carrots, 150 bushels,	60 00
Sugar beets, 400 bushels,	120 00
Beets, 205 bushels,	123 00
Onions, 436 bushels,	261 60
Turnips, 483 bushels,	144 90
Parsnips, 70 bushels,	42 00
Beans (Lima), in shell, 30 bushels,	60 00
Beans (common), in shell, 132 bushels,	132 00
Beans (string), 30½ bushels,	30 50
Peas (green), in pod, 117 bushels,	117 00
Sweet corn (green), in ear, 233 bushels,	175 12
Tomatoes, 110½ bushels,	110 50
Lettuce, 113 bushels,	113 00
Cucumbers, 190 bushels,	190 00
Squash (summer), 92½ bushels,	92 50
Squash (winter), 10,000 pounds,	150 00
Melons, 12,800 pounds,	128 00
Asparagus, 11½ bushels,	34 50
Pie plant, 99½ bushels,	99 50
Beet greens, 70 bushels,	70 00
Spinach, 24 bushels,	24 00
Cabbage, 3,400 heads,	68 00
Currants, 18½ bushels,	55 50
Apples, 748 barrels,	2,057 00
Pears, 24½ bushels,	18 37
Quinces, 8½ bushels,	18 75
Beef, 17,231 pounds,	1,021 02
Veal (raised here), 978 pounds,	98 30
Pork, 25,189 pounds,	1,385 39
Pigs sold, 233,	599 75
Pigs, roasting, 8,	16 00
Chickens, 869 pounds,	163 17
Heads and plucks, 11,	11 00
Eggs, 669 dozen,	162 70
Milk (grass-fed), 9,350 gallons,	2,243 42
Cider, 50 barrels,	197 00
Calf-skins, 11,	6 00
Young calves sold, 11,	32 00
Wood, 60 cords,	180 00
Eusilage, 125 tons,	312 50
Celery, 600 heads,	25 00
Posts, 21,	2 62
Lumber, 3,040 feet,	45 60

Husks (corn), 1 ton, . . . . .	\$12 00
Ice, 200 tons, . . . . .	400 00
Rye, 80 bushels, . . . . .	48 00
Grapes, 1 bushel, . . . . .	2 00
Citron, 250 pounds, . . . . .	5 00
	<hr/>
	\$18,003 91

### HOW THE HOSPITAL IS SUPPORTED.

The following financial exposition is the same that was published in the annual report of 1888-89, with the exception of changes necessary for its adaptation to present circumstances.

Although a State institution, this hospital has received no gratuitous assistance from the State since the spring of 1867. Since that time it has relied for its income solely upon the products of its farm, the board bills of its patients, and the small sum of \$10 each for the funeral expenses of State patients who die in the hospital, and whose remains are not removed for burial. The receipts from the last-mentioned source during the year were \$20.

For the entire support of State patients, including clothing and all loss from breakage and other kinds of destruction, the hospital received \$3.50 each per week from the treasury of the Commonwealth, from April 1, 1870, to April 1, 1879. For one year after the latter date it received but \$3 each per week; and since April 1, 1880, it has received \$3.25 each per week. This is a compensation fixed by the statute law. One hundred and six, or more than one-fifth, of the inmates now belong to this class. During the past year the weekly average of them was 20.59 per cent. of the whole. For town patients it has received, and now receives, from the treasuries of the towns, respectively, in which these patients have legal settlements, the same sum per week (\$3.25 each) as from the State treasury for State patients.

Formerly the towns clothed their patients and remunerated the hospital for damages done by them, but have not done so since April 1, 1888. Three hundred and eighteen of the inmates are now in this class. The weekly average of them for the year was 66.11 per cent. of the whole.



For private patients there is no uniform price. The average pay from all who were here Sept. 30, 1890, was \$4.905 each per week. Clothing and damages are extra charges. The weekly average of these patients during the past year was a fraction over 13.19 per cent. of the whole. The average weekly pay per capita, charged by the hospital for all of its patients, State, town and private, in the course of the year, is \$3.487.

Such are the pecuniary resources of the institution. We turn to the results of the finances of the last twenty-five years. In April, 1865, the hospital was freed from debt. The financial statement at the close of that month showed a balance of \$302.04 in its favor. Between that time and the 1st of June, 1867, it received a direct bonus from the State of \$5,000 in two appropriations, for specific purposes, — one of \$2,000 and the other of \$3,000.

As an offset to the \$5,000 bonus, the hospital has purchased and paid for several lots of land, amounting to nearly 302 acres, together with five dwelling-houses. The total cost of this real estate was \$39,205.52. The State has, then, in this way alone, been overpaid for its bonus in the sum of \$34,205.52. The amount paid by the hospital for repairs and improvements in the course of the last year is \$5,417.15; in the course of the twenty-five years from Sept. 30, 1865, to Sept. 30, 1890, it is \$279,128.42. The surplus of cash assets now on hand is \$39,512.69, or \$39,210.65 larger than it was on the 30th of April, 1865.

The purchased provisions and supplies, including fuel and stored clothing now on hand, are estimated to have cost \$17,146.18. The estimated value of similar supplies on the 30th of April, 1865, was \$2,500. The increase of assets under this head is, therefore, \$14,646.18. The value of household furniture in the hospital is, at a low estimate, at least \$10,000 greater than it was on the 30th of April, 1865, at the same rate or standard of appraisal. To be certain, however, of no exaggeration, let it be called \$8,000. Collecting these several sums, the account of debit of the Commonwealth to the hospital appears to be as follows: —

Excess of cost of land over direct bonus, . . . . .	\$34,205 52
Repairs and improvements, . . . . .	279,128 42
Excess of present cash assets, . . . . .	39,210 65
Increase of provisions and supplies, . . . . .	14,646 18
Increase of furniture, . . . . .	8,000 00
Total, . . . . .	<u>\$375,190 77</u>

The necessary current repairs of the building may be estimated at \$3,000 annually. Deducting this sum for each of the twenty-five years since Sept. 30, 1865, a total of \$75,000, there is a remainder of \$300,190.77. To this amount, then, has the hospital assisted itself to things, for most of which it is generally expected that such institutions will rely on direct appropriations from the treasury of the Commonwealth.

In the preparation of this summary we have taken into account only the actual disbursements of money by the hospital in contributing to its own improvements. But, aside from this, a large amount of work in effecting those improvements was performed by the teams of horses and cattle belonging to the institution, and by the regular corps of its employees. Agreeably to all correct business principles, as well as to the custom at some similar institutions, the hospital should be accredited with the amount of the value of this labor, but no credit has ever been given for it. Many thousands of dollars might in this direction be justly added to the sum above mentioned, as the product of the efforts of the hospital in the promotion of its own material progress.

In connection with the above exposition, it may be interesting to know to what extent the tax payers of the State have contributed to the institution. From a list furnished by the State treasurer, of all the appropriations made, either for the construction, the repairs or the improvements of the hospital, I find that, from the time of the passage of the act authorizing its erection down to the present day, it has cost the people of the Commonwealth only \$375,550.

## HOSPITAL TREATMENT.

The man who lives beyond his income soon becomes bankrupt; so the man who expends his strength and vitality faster than he lays it up in store soon fails in health, physically and often mentally. It becomes an important question, then, in the treatment of insanity as well as in other disorders, how to preserve and restore the normal balance between the outgoing and incoming energies of the body. We cannot expect to overcome at once the morbid tendencies which are the result of unfavorable influences extending back through generations. We may not restore to soundness the organs which are structurally diseased, but we can, and often do, bring about more healthful conditions, and place the patient on the road to recovery.

The medical service in a hospital has special advantages, inasmuch as the patient is under the direct supervision of the physician. Any case of illness may receive immediate and as frequent attention as the conditions demand. The administration of medicine is under his complete control. He can regulate the surroundings of the patient as to sanitary condition, diet, nursing, exercise and occupation. The abridgment of personal liberty brings a very strong influence to bear upon the patient. The regularity of hospital life and discipline and restraint are often serviceable in correcting those eccentricities and peculiarities which the insane are so liable to fall into, and lead to the formation of habits which are necessary to physical and mental health.

The opprobrium of hospital treatment is the small percentage of cures which are effected. It is unquestionably true that in the light of present medical knowledge a large proportion of the cases admitted to the hospitals are incurable when admitted. The entrance to the hospital is often the last resort, after all other known means of cure are exhausted. When the best efforts of medical skill have failed, and when the round of moral treatment has lost its charm, the patient comes to the hospital for help. Can it be wondered at that the last experiment so often fails? Yet statistics and experience show that the conditions of hospital life are peculiarly efficacious in benefiting and restoring to

health thousands of cases which come under its supervision and care, and upon this must we rely until science shows us a better way.

#### ACKNOWLEDGMENTS.

The hospital is indebted to Mr. S. E. Bridgman, to Mrs. D. D. Gorham and to Miss Florence Austin for contributions of magazines and papers; to Mrs. S. M. Butler and Mrs. S. A. Woodworth for numerous gifts to patients; to the "N E. Staaten Zeitung" for two copies of their paper during the year, and the "Christian Register" for one copy. Miss Herrick and Miss and Messrs. Kidder have favored the hospital with several concerts. Mr. Leitch gave a lecture illustrated with the stereopticon, and Dr. T. W. Meekins a series of stereopticon exhibitions during the winter. Many others contributed reading matter at various times.

#### CONCLUSION.

Mr. F. J. Rice, who had been steward of the institution for over thirty years, and who had always been a faithful and efficient officer, was removed by death. Mr. T. C. Powers succeeded him in this position.

No other change has occurred among the subordinate officers. Four attendants were discharged for neglect of duty or for disobedience of the rules of the institution.

To the officers who are associated with me in the management of the hospital, I can only express my gratitude for their uniform manifestation of interest in the welfare of the institution, and their helpful aid in the work of the year. The same credit is due to many others whose long-continued term of service here is the best evidence of their efficiency.

With sincere thanks for the cordial support, aid and counsel of your Board, this report is respectfully submitted.

EDWARD B. NIMS,  
*Superintendent.*



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## APPENDIX.

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**\* 2. Monthly Admissions, Discharges and Averages.**

MONTHS.	ADMISSIONS.			DISCHARGES (including Deaths).			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
<b>1899.</b>									
October, . . .	5	6	11	5	5	10	213.52	227.09	440.61
November, . . .	7	9	16	4	5	9	217.33	233.	450.33
December, . . .	12	5	17	5	4	9	225.42	235.03	460.45
<b>1900.</b>									
January, . . .	6	8	14	2	4	6	228.87	236.19	465.06
February, . . .	9	8	17	6	2	8	233.07	239.54	472.61
March, . . .	6	8	14	6	6	12	233.71	247.52	481.23
April, . . .	7	2	9	7	6	13	234.166	246.166	480.33
May, . . .	7	6	13	9	4	13	231.52	244.16	475.68
June, . . .	5	7	12	8	5	13	229.266	244.666	473.93
July, . . .	7	9	16	6	7	13	228.52	249.13	477.65
August, . . .	7	5	12	4	4	8	231.838	249.225	481.06
September, . . .	13	6	19	3	4	7	236.37	251.3	487.67
Total of cases, .	91	79	170	65	56	121	-	-	-
Total of persons, .	89	79	168	64	56	120	-	-	-
Daily average for the year, .	-	-	-	-	-	-	228.58	241.92	470.5

\* For Table No. 1, see the beginning of the superintendent's report.

† These totals are obtained by a division of the sums of daily residence for the year by 365, the number of days in the year.

**3. Received on First and Subsequent Admissions.**

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	75	59	134	-	-	-
Second, . . . . .	12	14	26	4	3	7
Third, . . . . .	2	3	5	1	3	4
Fourth, . . . . .	1	2	3	2	6	8
Fifth, . . . . .	-	1	1	-	3	3
Fifteenth, . . . . .	1	-	1	4	-	4
Total of cases, . . .	91	79	170	11	15	26
Total of persons, . . .	90	79	169	8	8	16



4. *Ages of Persons admitted for the First Time.*

AGES.	AT FIRST ATTACK OF INSANITY.			WHEN ADMITTED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . . .	—	—	—	—	—	—
Fifteen years and less, . . . . .	3	2	5	—	—	—
From 15 to 20 years, . . . . .	—	1	1	1	—	1
20 to 25 years, . . . . .	9	9	18	7	10	17
25 to 30 years, . . . . .	8	6	14	15	9	24
30 to 35 years, . . . . .	7	6	13	10	6	16
35 to 40 years, . . . . .	7	8	15	13	4	17
40 to 50 years, . . . . .	11	9	20	11	12	23
50 to 60 years, . . . . .	6	6	12	12	9	21
60 to 70 years, . . . . .	2	3	5	2	4	6
70 to 80 years, . . . . .	2	1	3	3	3	6
Over 80 years, . . . . .	1	2	3	1	2	3
Not insane, . . . . .	1	1	2	—	—	—
Unknown, . . . . .	18	5	23	—	—	—
Total of persons, . . . . .	75	59	134	75	59	134

5. *Parentage of Persons admitted.*

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	—	1	1	—	1	1
New Hampshire, . . . . .	—	1	1	1	1	2
Vermont, . . . . .	5	5	2	1	7	6
Massachusetts, . . . . .	27	22	17	19	44	41
Connecticut, . . . . .	5	7	1	2	6	9
New York, . . . . .	1	4	7	7	8	11
Pennsylvania, . . . . .	—	1	—	—	—	1
New Jersey, . . . . .	1	—	—	—	1	—
Indiana, . . . . .	—	1	—	—	—	1
Michigan, . . . . .	1	—	—	—	1	—
Kentucky, . . . . .	1	1	—	—	1	1
Canada, . . . . .	4	3	5	5	9	8
England, . . . . .	6	3	—	2	6	5
Ireland, . . . . .	27	30	35	34	62	64
Scotland, . . . . .	1	1	—	—	1	1
Germany, . . . . .	2	2	5	3	7	5
Austria, . . . . .	1	1	—	—	1	1
Holland, . . . . .	—	—	—	1	—	1
Bohemia, . . . . .	—	—	1	1	1	1
Poland, . . . . .	1	1	—	—	1	1
Unknown, . . . . .	6	5	4	3	10	8
Total of persons, . . . . .	89	89	79	79	168	168

6. *Residence of Persons admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	20	21	41
Hampden County, . . . . .	40	29	69
Berkshire County, . . . . .	20	20	40
Franklin County, . . . . .	8	9	17
Suffolk County, . . . . .	1	—	1
Total of persons, . . . . .	89	79	168
Cities and large towns, . . . . .	58	45	103
Country districts, . . . . .	31	34	65
Total of persons, . . . . .	89	79	168

7. *Civil Condition of Persons admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.			UNKNOWN.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . . . .	35	25	60	32	23	55	7	11	18	—	1	1	1	—	1
Second, . . . . .	4	8	12	5	3	8	2	2	4	—	—	—	—	—	—
Third, . . . . .	—	1	1	1	1	2	—	1	1	—	—	—	—	—	—
Fourth, . . . . .	—	—	—	1	1	2	—	1	1	—	—	—	—	—	—
Fifth, . . . . .	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—
Fifteenth, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Total of persons, . . . . .	40	35	75	39	28	67	9	15	24	—	1	1	1	—	1

8. *Occupations of Persons admitted.*

OCCUPATIONS.	Males.	OCCUPATIONS.	Females.
Laborers, . . . . .	31	Housekeepers, . . . . .	5
Carpenters, . . . . .	2	Carpenter's wife, . . . . .	4
Mechanics, . . . . .	4	Whip maker's wife, . . . . .	1
Coal dealer, . . . . .	1	Cigar maker's wife, . . . . .	1
Paper maker, . . . . .	1	Store keeper, . . . . .	1
Watchman, . . . . .	1	Teachers, . . . . .	2
Mill operatives, . . . . .	3	Clerk's wife, . . . . .	1
Hostler, . . . . .	1	Waiter, . . . . .	1
Farmers, . . . . .	12	Mill operatives, . . . . .	9
Cigar makers, . . . . .	2	Machinist's wife, . . . . .	1
Shoemakers, . . . . .	3	Mechanic's wife, . . . . .	2
Tailor, . . . . .	1	Laborer's wife, . . . . .	5
Machinists, . . . . .	2	Weaver's wife, . . . . .	3
Cutler, . . . . .	1	Farmer's wife, . . . . .	1
Draughtsman, . . . . .	1	Stone mason's wife, . . . . .	1
Clerks, . . . . .	2	Painter's wife, . . . . .	1
Book-keepers, . . . . .	2	Merchant's wife, . . . . .	2
Bottler, . . . . .	1	Plumber's wife, . . . . .	1
Painter, . . . . .	1	Railroad employee's wife, . . . . .	1
Foundryman, . . . . .	1	Operative's wife, . . . . .	1
Blacksmiths, . . . . .	3	Domestics, . . . . .	17
Lumber dealer, . . . . .	1	Canvasser, . . . . .	1
Theatrical manager, . . . . .	1	None, . . . . .	16
Salesman, . . . . .	1	Unknown, . . . . .	1
Steam fitter, . . . . .	1		
Wood worker, . . . . .	1		
Teamster, . . . . .	1		
Commercial traveller, . . . . .	1		
Physician, . . . . .	1		
Confectioner, . . . . .	1		
Tramp, . . . . .	1		
None, . . . . .	3		
Total of persons, . . . . .	89	Total of persons, . . . . .	79

9. *Reported Duration of Insanity before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO THIS HOSPITAL.			ALL OTHER AD- MISSIONS.*			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	-	-	-	-	-	-	-	-	-
Under 1 month, . . . .	16	11	27	-	-	-	16	11	27
From 1 to 3 months, . .	4	6	10	2	-	2	6	6	12
3 to 6 months, . . .	8	6	14	2	-	2	10	6	16
6 to 12 months, . .	4	5	9	-	1	1	4	6	10
1 to 2 years, . . . .	6	11	17	2	5	7	8	16	24
2 to 5 years, . . . .	9	6	15	2	5	7	11	11	22
5 to 10 years, . . . .	6	3	9	5	5	10	11	8	19
10 to 20 years, . . .	3	5	8	3	3	6	6	8	14
Over 20 years, . . . . .	1	2	3	-	1	1	1	3	4
Not insane, . . . . .	1	1	2	-	-	-	1	1	2
Unknown, . . . . .	17	3	20	-	-	-	17	3	20
Total of cases, . . . .	75	59	134	16	20	36	91	79	170
Total of persons, . . . .	75	59	134	14	20	34	89	79	168
Average of known cases (in years), . . . . .	2	3 $\frac{1}{8}$	2 $\frac{1}{2}$	5 $\frac{2}{3}$	5 $\frac{2}{3}$	5 $\frac{2}{3}$	2 $\frac{2}{3}$	3 $\frac{1}{8}$	3 $\frac{1}{2}$

\* In this division of the table, the whole period of time, from the first attack to the last admission, is indicated.

10. *Form of Disease in the Cases admitted.*

FORM OF DISEASE.	Males.	Females.	Totals.
Epilepsy, . . . . .	8	3	11
Paresis, . . . . .	7	1	8
Mania, . . . . .	—	—	—
acute, . . . . .	14	12	26
chronic, . . . . .	12	12	24
recurrent, . . . . .	3	1	4
puerperal, . . . . .	—	5	5
senile, . . . . .	—	3	3
<i>a potu</i> , . . . . .	2	—	2
toxic, . . . . .	10	3	13
Melancholia, acute, . . . . .	12	10	22
chronic, . . . . .	3	6	9
senile, . . . . .	—	1	1
recurrent, . . . . .	—	1	1
puerperal, . . . . .	—	2	2
Dementia, . . . . .	2	—	2
primary, . . . . .	3	4	7
secondary, . . . . .	1	8	9
senile, . . . . .	5	1	6
Delusional, . . . . .	1	3	4
primary, . . . . .	1	—	1
Dipsomania, . . . . .	3	—	3
Inebriate, . . . . .	1	—	1
Congenital mental deficiency, . . . . .	1	1	2
Opium habit, . . . . .	—	1	1
Morphine habit, . . . . .	1	—	1
Not insane, . . . . .	1	1	2
Total of cases, . . . . .	91	79	170
Total of persons, . . . . .	89	79	168

11. *Probable Causes of Insanity in Persons admitted.*

CAUSES.	Males.	Females.	Totals.
<i>Physical.</i>			
Congenital, . . . . .	—	1	1
Ill health, . . . . .	3	6	9
Debility, . . . . .	—	1	1
Epilepsy, . . . . .	5	3	8
Softening of the brain, . . . . .	1	—	1
Puerperal, . . . . .	—	6	6
Child-birth, . . . . .	—	2	2
Change of life, . . . . .	—	4	4
Disordered menstruation, . . . . .	—	1	1
Heredity, . . . . .	5	4	9
Heredity and nervous prostration, . . . . .	—	1	1
Intemperance, . . . . .	19	3	22
Intemperance and injury to head, . . . . .	1	—	1
Dissipation, . . . . .	1	2	3
Dipsomania, . . . . .	1	—	1
Masturbation, . . . . .	1	—	1
Masturbation and tobacco, . . . . .	1	—	1
Injury to head, . . . . .	3	—	3
Sunstroke, . . . . .	2	—	2
Old age, . . . . .	3	3	6
Old age and heredity, . . . . .	—	1	1
Malaria, . . . . .	1	1	2
Hysteria, . . . . .	—	1	1
Overwork, . . . . .	1	—	1
Overwork and ill health, . . . . .	2	—	2
Grief and ill health, . . . . .	1	—	1
Bright's disease, . . . . .	1	—	1
Disappointment and overwork, . . . . .	1	—	1
Opium habit, . . . . .	—	1	1
Morphine habit, . . . . .	1	—	1
Sickness, . . . . .	—	3	3
<i>Mental.</i>			
Domestic trouble, . . . . .	—	1	1
Business trouble, . . . . .	1	—	1
Worry, . . . . .	2	1	3
Anxiety and worry, . . . . .	1	—	1
Loss of friends, . . . . .	—	1	1
Grief, . . . . .	1	—	1
Disappointment, . . . . .	—	2	2
Religious excitement, . . . . .	1	3	4
Over study, . . . . .	—	1	1
Total of mental, . . . . .	6	9	15
Total of physical, . . . . .	54	44	98
Not insane, . . . . .	1	1	2
Unknown, . . . . .	28	25	53
Total of persons, . . . . .	89	79	168

*12. Relations to Hospitals of Persons admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Totals.
Never before in any hospital, . . . .	67	54	121
Former inmates of this hospital, . . . .	14	19	33
Former inmates of other hospitals in this State, . . . . .	4	—	4
Former inmates of this hospital and other hospitals in this State, . . . . .	—	1	1
Former inmates of hospitals in other States,	3	5	8
Former inmates of this hospital and of hospitals in other States, . . . . .	1	—	1
Total of persons, . . . . .	89	79	168

## 13. Discharges, classified by Admission and Result.

ADMISSION.	NOT INSANE.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	1	2	3	16	13	29	3	5	8	11	15	26	10	5	17	11	8	19	52	48	100
Second, . . . . .	-	-	-	2	1	3	1	1	2	3	1	4	2	-	2	-	1	1	8	4	12
Third, . . . . .	-	-	-	-	-	-	-	1	1	2	-	2	-	-	-	-	-	-	2	1	3
Fourth, . . . . .	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Fifth, . . . . .	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1
Sixth, . . . . .	-	-	-	-	-	-	1	-	1	-	1	1	-	-	-	1	-	-	1	1	2
Seventh, . . . . .	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	1	1
Fourteenth, . . . . .	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Total of cases, . . . . .	1	2	3	18	14	32	5	9	14	17	17	34	12	5	17	12	9	21	65	56	121
Total of persons, . . . . .	1	2	3	18	14	32	5	9	14	16	17	33	12	5	17	12	9	21	64	56	120



14. *How Supported.*

	PATIENTS ADMITTED.			WEEKLY AVERAGE OF THE YEAR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . .	27	21	48	48.42	48.44	96.86
Town patients, . .	50	43	93	151.46	159.71	311.17
Private patients, . .	14	15	29	28.42	33.65	62.07
Total of cases, . .	91	79	170	228.3	241.8	470.1*

\* This weekly average is .4 less than the daily average, 470.5.

15. *Cases discharged Recovered. — Duration.*

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Under 1 month, . .	8	8	16	3	1	4	—	1	1
From 1 to 3 months, .	4	1	5	4	3	7	5	2	7
3 to 6 months, . .	1	1	2	8	5	13	6	2	8
6 to 12 months, . .	—	1	1	1	5	6	1	6	7
1 to 2 years, . .	1	1	2	2	—	2	2	1	3
2 to 5 years, . .	2	2	4	—	—	—	1	2	3
5 to 10 years, . .	1	—	1	—	—	—	2	—	2
Unknown, . .	1	—	1	—	—	—	1	—	1
Total of cases, . .	18	14	32	18	14	32	18	14	32
Average of known cases (in months), .	11 $\frac{5}{7}$	8 $\frac{2}{4}$	9 $\frac{3}{1}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	4 $\frac{1}{2}$	15 $\frac{1}{4}$	12 $\frac{1}{2}$	14 $\frac{1}{4}$

## 16. Cases Resulting in Death. — Duration.

PERIOD.	DURATION BEFORE ADMISSION.			HOSPITAL RESI- DENCE.			WHOLE DURATION FROM THE ATTACK.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . .	1	1	2	—	2	2	—	1	1
From 1 to 3 months, .	—	1	1	—	—	—	—	—	—
3 to 6 months, . . .	2	—	2	1	2	3	—	—	—
6 to 12 months, . . .	—	—	—	—	—	—	—	—	—
1 to 2 years, . . . .	3	1	4	4	1	5	1	1	2
2 to 5 years, . . . .	1	1	2	5	1	6	5	1	6
5 to 10 years, . . . .	1	2	3	1	3	4	2	3	5
10 to 20 years, . . .	—	1	1	—	—	—	—	1	1
Over 20 years, . . . .	1	2	3	1	—	1	1	2	3
Unknown, . . . . .	3	—	3	—	—	—	3	—	3
Totals, . . . . .	12	9	21	12	9	21	12	9	21
Average of known cases (in months), . .	48½	122½	85½	51½	16½	36½	79½	139½	109½

## 17. Cases discharged by Recovery or Death.

FORM OF INSANITY.	RECOVERIES.			DEATHS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Epilepsy, . . . . .	—	—	—	1	1	2
Paresis, . . . . .	—	—	—	3	—	3
Mania, acute, . . . .	5	6	11	—	1	1
chronic, . . . . .	—	1	1	3	4	7
senile, . . . . .	—	—	—	1	—	1
puerperal, . . . .	—	2	2	—	—	—
toxic, . . . . .	5	1	6	—	—	—
<i>a potu</i> , . . . . .	1	—	1	—	—	—
Melancholia, acute, . .	2	2	4	—	—	—
chronic, . . . . .	—	1	1	—	—	—
Dementia, primary, . .	2	—	2	1	1	2
secondary, . . . .	—	—	—	3	2	5
senile, . . . . .	—	—	—	—	—	—
Dipsomania, . . . . .	2	1	3	—	—	—
Inebriate, . . . . .	1	—	1	—	—	—
Totals, . . . . .	18	14	32	12	9	21

*18. Causes of Death.*

CAUSES.	Males.	Females.	Totals.
<b>Nervous system :—</b>			
Chronic brain disease, . . . . .	2	1	3
Exhaustion of acute mania, . . . . .	—	1	1
Exhaustion of chronic mania, . . . . .	1	1	2
Exhaustion of senile mania, . . . . .	1	—	1
Paralysis, . . . . .	1	—	1
Paresis, . . . . .	3	—	3
Apoplexy, . . . . .	1	1	2
Epilepsy, . . . . .	—	1	1
<b>Respiratory :—</b>			
Phthisis, . . . . .	—	2	2
Pneumonia, . . . . .	1	—	1
<b>General :—</b>			
Bright's disease, . . . . .	2	—	2
Cancer, . . . . .	—	1	1
Old age, . . . . .	—	1	1
<b>Totals, . . . . .</b>	<b>12</b>	<b>9</b>	<b>21</b>

## 19. Deaths, classified by Results of Previous Admissions.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	1	-	1	-	-	-	-	1	1	-	-	-	1	1	2
Second, . . . . .	-	-	-	-	-	-	1	-	1	-	-	-	1	-	1
Third, . . . . .	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1
Fourth, . . . . .	-	-	-	-	-	-	-	-	-	1	-	1	1	-	1
Total of cases, . . .	1	-	1	-	-	-	1	1	2	2	-	2	4	1	5
Total of persons, . .	1	-	1	-	-	-	1	1	2	1	-	1	1	1	2

20. Recoveries, classified by Results of Previous Admissions.

NUMBER OF THE ADMIS- SION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . .	2	-	2	-	-	-	-	1	1	-	-	-	2	1	3
Total of cases, . .	2	-	2	-	-	-	-	1	1	-	-	-	2	1	3
Total of persons, .	2	-	2	-	-	-	-	1	1	-	-	-	2	1	3

21. *Deaths, classified by Duration of Insanity and of Treatment.*

PERIOD.	DURATION OF INSANITY FROM FIRST ATTACK.			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . . . .	—	—	—	—	—	—
Under 1 month, . . . . .	—	1	1	—	2	2
From 1 to 3 months, . . . . .	—	—	—	—	—	—
3 to 6 months, . . . . .	—	—	—	1	1	2
6 to 12 months, . . . . .	—	—	—	—	1	1
1 to 2 years, . . . . .	1	1	2	3	1	4
2 to 5 years, . . . . .	5	1	6	5	4	9
5 to 10 years, . . . . .	2	3	5	2	—	2
10 to 20 years, . . . . .	—	1	1	—	—	—
Over 20 years, . . . . .	1	2	3	1	—	1
Unknown, . . . . .	3	—	3	—	—	—
Totals, . . . . .	12	9	21	12	9	21
Average of known cases (in months),	79 $\frac{1}{2}$	139 $\frac{1}{2}$	109 $\frac{1}{2}$	55 $\frac{5}{12}$	22 $\frac{1}{2}$	41 $\frac{1}{2}$

22. *Ages of Those who Died.*

AGES.	AT TIME OF FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
From 15 to 20 years, . . . . .	—	1	1	—	—	—
20 to 25 years, . . . . .	—	1	1	—	—	—
25 to 30 years, . . . . .	1	2	3	—	1	1
30 to 35 years, . . . . .	1	—	1	1	1	2
35 to 40 years, . . . . .	3	—	3	2	—	2
40 to 50 years, . . . . .	—	2	2	1	1	2
50 to 60 years, . . . . .	1	2	3	1	4	5
60 to 70 years, . . . . .	1	—	1	3	1	4
70 to 80 years, . . . . .	3	—	3	3	—	3
Over 80 years, . . . . .	—	1	1	1	1	2
Unknown, . . . . .	2	—	2	—	—	—
Totals, . . . . .	12	9	21	12	9	21

23. Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of Each Year's Admissions remaining Sept. 30, 1890.

YEARS.	NEW CASES (FIRST ADMISSION).																				
	ADMITTED.			DISCHARGED AND DIED IN 1889-90.																	
				RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			NOT INSANE.			DIED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,—2 months,	99	129	228																		
1858-59,	42	46	88																		
1859-60,	66	91	157																		
1860-61,	58	46	104																		
1861-62,	51	43	94																		
1862-63,	56	57	113																		
1863-64,	35	80	65																		
1864-65,	54	55	109																		
1865-66,	66	52	118																		
1866-67,	42	69	111																		
1867-68,	54	71	125							1	1	2							1	1	2
1868-69,	72	64	136																		
1869-70,	80	103	183																		
1870-71,	93	88	181																		
1871-72,	83	85	168																		
1872-73,	89	69	158																		
1873-74,	86	69	155																		





## 23. Annual Admissions, etc. — Concluded.

YEARS.	READMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS SEPT. 30, 1890.					
	ADMITTED.			DISCHARGED AND DIED IN 1899-90.														
				RECOVERED.			MUCH IMPROVED.			IMPROVED.						UNIMPROVED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,—2 mos.,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7	1	8
1858-59,	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	2	2	4
1859-60,	7	3	10	—	—	—	—	—	—	—	—	—	—	—	—	2	1	3
1860-61,	13	7	20	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
1861-62,	13	5	18	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
1862-63,	14	11	25	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
1863-64,	12	15	27	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1
1864-65,	16	9	25	—	—	—	—	—	—	—	—	—	—	—	—	2	1	3
1865-66,	9	9	18	—	—	—	—	—	—	—	—	—	—	—	—	4	1	5
1866-67,	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2
1867-68,	14	13	27	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2
1868-69,	12	21	33	—	—	—	—	—	—	—	—	—	—	—	—	3	2	5
1869-70,	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—	1	2	3
1870-71,	16	14	30	—	—	—	—	—	—	—	—	—	—	—	—	2	2	4
1871-72,	18	13	31	—	—	—	—	—	—	—	—	—	—	—	—	2	7	9
1872-73,	13	10	23	—	—	—	—	—	—	—	—	—	—	—	—	2	6	8
1873-74,	19	19	38	—	—	—	—	—	—	—	—	—	—	—	—	4	5	9
1874-75,	14	16	30	—	—	—	—	—	—	—	—	—	—	—	—	2	3	5
1875-76,	13	14	27	—	—	—	—	—	—	—	—	—	—	—	—	10	6	16
1876-76,	13	14	27	—	—	—	—	—	—	—	—	—	—	—	—	5	—	5

[illegible]

## 24. Relapsed Cases admitted in Each Year, and discharged in 1889-90.

YEARS.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.										REMAINING SEPT. 30, 1890.							
	ADMITTED.			RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			DIED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,— 2 months,																		
1858-59,	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1859-60,	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1860-61,	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1861-62,	6	2	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1862-63,	5	8	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1863-64,	6	10	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1864-65,	8	4	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1865-66,	4	3	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1866-67,	11	6	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1867-68,	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1868-69,	6	9	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1869-70,	5	4	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1870-71,	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1871-72,	6	8	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1872-73,	6	5	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1873-74,	7	8	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1874-75,	2	5	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1875-76,	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]

## 25. Operations of the Hospital, from the Beginning, in Each Year.

YEARS.	ADMITTED.			DISCHARGED AND DIED.												Whole Number of Cases in the Year.	Number of Patients at End of the Year.														
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.					NOT INSANE.			DIED.										
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			Males.	Females.	Totals.	Males.	Females.	Totals.								
1858,—2 months,	99	129	228	18	15	33	—	—	—	4	9	13	2	7	9	—	—	—	1	7	12	19	1	—	—	—	—	—	—	228	220
1858-59,	46	47	93	16	15	31	—	—	—	9	9	18	2	2	4	—	—	—	—	9	18	27	1	—	—	—	—	—	—	313	231
1859-60,	73	94	167	19	16	35	—	—	—	12	10	22	2	2	4	—	—	—	—	15	15	30	—	—	—	—	—	—	—	398	310
1860-61,	71	53	124	18	17	35	—	—	—	14	14	28	4	4	8	—	—	—	—	19	10	29	—	—	—	—	—	—	—	434	330
1861-62,	64	48	112	19	15	34	—	—	—	27	16	42	9	5	14	—	—	—	—	9	10	19	—	—	—	—	—	—	—	442	332
1862-63,	70	68	138	12	16	28	—	—	—	16	10	26	4	3	7	—	—	—	—	19	7	26	—	—	—	—	—	—	—	470	383
1863-64,	47	45	92	30	19	49	—	—	—	19	15	34	4	6	10	—	—	—	—	17	30	47	—	—	—	—	—	—	—	475	334
1864-65,	70	64	134	17	16	33	—	—	—	14	15	29	8	5	13	—	—	—	—	18	13	31	—	—	—	—	—	—	—	468	405
1865-66,	75	61	136	16	10	26	—	—	—	12	7	19	6	2	8	—	—	—	—	23	24	47	—	—	—	—	—	—	—	543	413
1866-67,	61	77	138	24	18	42	—	—	—	15	13	28	6	7	12	—	—	—	—	25	18	43	—	—	—	—	—	—	—	565	421
1867-68,	68	84	152	21	19	40	—	—	—	22	27	49	5	7	12	—	—	—	—	13	12	25	—	—	—	—	—	—	—	590	402
1868-69,	84	85	169	31	18	49	—	—	—	23	33	56	20	38	58	—	—	—	—	25	18	43	—	—	—	—	—	—	—	604	405
1869-70,	90	112	202	23	27	50	—	—	—	15	43	58	22	34	56	—	—	—	—	22	11	33	—	—	—	—	—	—	—	616	420
1870-71,	109	102	211	16	27	43	—	—	—	23	41	64	31	30	61	—	—	—	—	19	18	37	—	—	—	—	—	—	—	619	433
1871-72,	101	98	199	25	15	40	—	—	—	33	27	60	22	27	49	—	—	—	—	13	8	21	—	—	—	—	—	—	—	614	433
1872-73,	102	79	181	19	29	48	—	—	—	37	22	59	23	29	52	—	—	—	—	14	11	25	—	—	—	—	—	—	—	626	476
1873-74,	105	88	193	25	12	37	—	—	—	24	19	43	27	18	45	—	—	—	—	23	18	41	—	—	—	—	—	—	—	629	476
1874-75,	75	78	153	16	13	29	—	—	—	21	24	45	17	21	38	—	—	—	—	18	19	37	—	—	—	—	—	—	—	629	464
1875-76,	76	77	153	19	13	32	—	—	—	18	31	49	24	23	47	—	—	—	—	21	9	30	—	—	—	—	—	—	—	603	475
1876-77,	68	71	139	15	18	33	—	—	—	8	13	21	15	16	31	—	—	—	—	14	9	23	—	—	—	—	—	—	—	561	429
1877-78,	40	36	76	7	19	26	—	—	—	17	27	44	16	13	29	—	—	—	—	14	9	23	—	—	—	—	—	—	—	585	443
1878-79,	63	43	106	13	13	26	—	—	—	15	13	28	11	3	14	—	—	—	—	14	9	23	—	—	—	—	—	—	—	585	443

1879-80, .	59	58	117	16	12	28	5	7	12	11	12	23	9	10	19	2	-	2	17	12	29	559	446
1880-81, .	57	66	123	7	13	20	6	7	13	15	15	30	6	10	16	1	-	1	16	10	26	569	463
1881-82, .	62	62	124	13	15	28	4	9	13	7	14	21	14	13	27	-	1	1	24	14	38	587	459
1882-83, .	76	69	147	11	17	28	9	-	9	18	15	33	21	14	35	1	1	2	17	13	30	606	469
1883-84, .	61	75	136	9	16	25	6	11	17	16	19	35	16	20	36	3	1	2	12	13	25	605	463
1884-85, .	66	70	136	17	12	29	4	5	9	12	17	29	10	16	26	1	2	3	16	11	27	599	476
1885-86, .	85	98	183	10	19	29	8	2	10	23	36	59	20	23	43	1	1	1	14	12	26	659	491
1886-87, .	72	76	148	16	8	24	5	3	8	36	31	67	21	16	37	1	2	3	13	18	31	639	469
1887-88, .	57	79	166	23	13	36	3	6	9	25	22	47	12	17	29	2	-	2	14	17	31	635	481
1888-89, .	98	57	155	27	15	42	6	6	12	25	40	65	36	8	43	2	1	3	18	7	25	636	446
1889-90, .	91	79	170	18	14	32	5	9	14	17	17	34	12	5	17	1	2	3	12	9	21	616	495
Totals,	2,473	2,428	4,901	570	519	1,089	61	65	126	603	666	1,395	460	456	916	17	15	32	519	455	974	-	-

*26. Showing Results of First Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Number of persons on first admission, . . . . .	—	—	—	2,024	1,997	4,021
Discharged recovered, . . . . .	458	399	857	—	—	—
improved, . . . . .	535	612	1,147	—	—	—
unimproved, . . . . .	387	385	772	—	—	—
not insane, . . . . .	15	13	28	—	—	—
Died, . . . . .	449	411	860	—	—	—
Remaining in the hospital Sept 30, 1890, . . . . .	180	177	357	2,024	1,997	4,021

*Showing Results of Readmissions.*

Readmitted, . . . . .	—	—	—	449	431	880
Discharged recovered, . . . . .	112	120	232	—	—	—
improved, . . . . .	129	119	248	—	—	—
unimproved, . . . . .	73	71	144	—	—	—
not insane, . . . . .	2	2	4	—	—	—
Died, . . . . .	70	44	114	—	—	—
Remaining in the hospital Sept. 30, 1890, . . . . .	63	75	138	449	431	880

*Showing Results of Second Admissions.*

Second admissions, . . . . .	—	—	—	318	296	614
Discharged recovered, . . . . .	80	65	145	—	—	—
improved, . . . . .	78	81	159	—	—	—
unimproved, . . . . .	57	52	109	—	—	—
not insane, . . . . .	1	2	3	—	—	—
Died, . . . . .	56	37	93	—	—	—
Remaining in the hospital Sept. 30, 1890, . . . . .	46	59	105	318	296	614

*Showing Results of Third Admissions.*

Third admissions, . . . . .	—	—	—	80	62	142
Discharged recovered, . . . . .	17	24	41	—	—	—
improved, . . . . .	28	18	46	—	—	—
unimproved, . . . . .	12	9	21	—	—	—
inebriates, . . . . .	1	—	1	—	—	—
Died, . . . . .	11	4	15	—	—	—
Remaining in the hospital Sept. 30, 1890, . . . . .	11	7	18	80	62	142

*Showing Results of Fourth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourth admissions, . . .	—	—	—	22	31	53
Discharged recovered, . . .	7	8	15	—	—	—
improved, . . .	7	11	18	—	—	—
unimproved, . . .	2	4	6	—	—	—
Died, . . .	2	2	4	—	—	—
Remaining in the hospital Sept. 30, 1890, . . .	4	6	10	—	—	—

*Showing Results of Fifth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifth admissions, . . .	—	—	—	10	14	24
Discharged recovered, . . .	4	7	11	—	—	—
improved, . . .	4	4	8	—	—	—
unimproved, . . .	—	2	2	—	—	—
Died, . . .	1	—	1	—	—	—
Remaining in the hospital Sept. 30, 1890, . . .	1	1	2	10	14	24

*Showing Results of Sixth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Sixth admissions, . . .	—	—	—	7	10	17
Discharged recovered, . . .	2	5	7	—	—	—
improved, . . .	3	3	6	—	—	—
unimproved, . . .	2	2	4	7	10	17

*Showing Results of Seventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Seventh admissions, . . .	—	—	—	3	5	8
Discharged recovered, . . .	1	3	4	—	—	—
improved, . . .	2	—	2	—	—	—
unimproved, . . .	—	1	1	—	—	—
Died, . . .	—	1	1	3	5	8

*Showing Results of Eighth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eighth admissions, . . .	—	—	—	2	3	5
Discharged recovered, . . .	1	2	3	—	—	—
improved, . . .	1	—	1	—	—	—
unimproved, . . .	—	1	1	2	3	5



*Showing Results of Ninth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Ninth admissions, . . .	-	-	-	1	2	3
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	-	-	-
Remaining in the hospital Sept. 30, 1890, . . .	-	1	1	1	2	3

*Showing Results of Tenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Tenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing Results of Eleventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eleventh admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing Results of Twelfth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Twelfth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing Results of Thirteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Thirteenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing Results of Fourteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourteenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing Results of Fifteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteenth admissions, . . .	-	-	-	1	1	2
Discharged improved, . . .	-	1	1	-	-	-
Remaining in the hospital Sept. 30, 1890, . . .	1	-	1	1	1	2

*Showing Results of Sixteenth Admissions.*

Sixteenth admissions, . . .	-	-	-	-	1	1
Discharged improved, . . .	-	1	1	-	1	1

*Showing Results of Seventeenth Admissions.*

Seventeenth admissions, . . .	-	-	-	-	1	1
Remaining in the hospital Sept. 30, 1890, . . .	-	1	1	-	1	1

27. *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	54.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84
1885-86, . . . .	140.23	270.52	63.61	474.36
1886-87, . . . .	122.78	289.38	66.00	478.16
1887-88, . . . .	112.17	294.01	64.01	470.19
1888-89, . . . .	104.67	303.01	61.31	468.99
1889-90, . . . .	96.86	311.17	62.07	470.10

28. *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1889.</b>		
October, . . . . .	51,100	1,648.39
November, . . . . .	57,800	1,923.33
December, . . . . .	71,400	2,303.22
<b>1890.</b>		
January, . . . . .	60,400	1,948.38
February, . . . . .	50,400	1,800.00
March, . . . . .	47,100	1,519.35
April, . . . . .	35,300	1,176.67
May, . . . . .	26,400	851.61
June, . . . . .	21,000	700.00
July, . . . . .	20,750	669.35
August, . . . . .	25,700	829.03
September, . . . . .	38,700	1,290.00
Total, . . . . .	506,050	16,659.33

## 29. Supplies for the Several Departments for the Year 1889-90.

	Sheets.	Pillow Cases.	Bed Spreads.	Blankets.	Bed Ticks.	Towels.	Curtains.	Wash Bowls.	Bowls.	Chamber.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Raucers.	Tumblers.	Mugs.	Bowls.	Pitchers.	Syrup Cups.	Knives.	Forks.	Lanterns.	Scissors.	Clothes Bags.	Pillow Ticks.
<i>Men's Department.</i>																												
Upper 1st Hall, . . .	30	38	16	-	4	12	12	2	2	4	1	-	3	11	6	18	18	18	-	-	2	2	-	-	-	-	1	-
2d Hall, . . .	32	44	-	12	2	-	6	-	-	12	2	2	2	20	12	18	24	18	-	-	12	-	-	-	-	-	1	12
3d and 4th Halls, . .	28	26	-	12	-	-	-	-	-	40	1	2	2	20	6	6	12	12	-	-	3	-	-	-	-	-	-	4
Middle 1st Hall, . . .	24	26	6	-	-	-	1	-	-	8	-	2	3	7	18	6	12	-	-	6	1	-	6	-	-	-	-	12
2d Hall, . . .	36	48	8	6	-	6	-	-	-	19	1	1	2	-	30	12	24	-	-	4	5	-	2	-	-	-	2	12
3d and 4th Halls, . .	48	36	-	20	-	4	-	-	-	32	-	4	5	-	6	6	6	-	-	6	3	-	-	-	-	-	-	12
Lower 1st Hall, . . .	36	36	-	-	-	4	4	-	-	-	-	-	-	6	6	18	-	-	-	1	1	1	-	-	-	-	-	7
2d Hall, . . .	48	12	8	-	-	6	3	-	-	31	-	-	-	-	2	-	-	-	-	-	4	-	-	-	-	-	-	12
3d and 4th Halls, . .	36	30	6	26	1	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Women's Department.</i>																												
Upper 1st Hall, . . .	27	39	6	7	5	90	12	3	3	6	-	-	2	-	12	-	-	30	-	-	2	-	-	-	-	-	-	-
2d Hall, . . .	12	12	-	1	2	12	-	-	1	12	1	-	-	-	-	-	-	24	-	2	2	-	-	-	-	-	-	-
3d Hall, . . .	18	18	13	12	5	6	16	-	-	12	-	-	12	2	-	24	-	6	-	-	-	-	-	-	-	-	-	-
4th Hall, . . .	-	12	6	12	-	24	12	2	-	3	1	1	10	1	18	12	18	18	-	-	18	-	-	-	-	-	-	-
Middle 1st Hall, . . .	4	16	-	-	-	-	-	-	-	6	-	-	10	6	30	24	6	6	-	-	6	-	-	-	-	-	-	3
2d Hall, . . .	60	18	12	18	-	18	6	1	1	42	1	-	22	6	12	12	12	12	-	6	6	-	-	-	-	-	-	2
3d Hall, . . .	48	30	12	12	-	30	16	1	1	18	-	1	20	4	12	6	18	24	-	30	24	-	-	-	-	-	-	3
4th Hall, . . .	36	28	6	6	3	24	6	1	2	18	2	1	19	4	12	6	24	12	-	24	6	-	-	-	-	-	-	2
Lower 1st Hall, . . .	12	40	8	6	-	16	8	-	-	6	-	-	28	12	12	24	24	12	-	6	3	1	-	-	-	-	-	-
2d Hall, . . .	68	54	11	12	-	78	9	-	-	18	-	-	37	6	6	-	-	12	-	-	1	-	-	-	-	-	-	-
3d Hall, . . .	60	16	8	12	-	18	10	-	-	9	-	-	27	3	-	-	-	12	-	-	1	-	-	-	-	-	-	-
4th Hall, . . .	24	24	-	-	-	30	-	-	-	9	-	1	2	3	-	36	24	-	-	-	8	-	-	-	-	-	-	-
Kitchen, . . .	-	-	-	-	-	47	-	-	-	2	-	-	-	9	96	-	-	84	-	-	12	-	-	-	-	-	-	-
Rear, . . .	8	18	6	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
Centre, . . .	8	14	2	2	-	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aggregates, . . .	703	603	126	186	24	454	121	10	13	290	13	14	222	84	488	228	252	270	72	103	48	2	25	27	1	1	29	69

## 29. Supplies for the Several Departments for the Year 1889-90—Concluded.

	Spoons.	Glass Casters.	Table Spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Rollers.	Wash Basins.	Brooms.	Soap, Pounds.	Whisks.	Dust Brushes.	Scrub Brushes.	Dust Pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe Brushes.	Spools Thread.	Papers.	Needles.	Papers Pins.	Rubber Chambers.
<i>Men's Department.</i>																										
Upper 1st Hall,	1	—	2	12	—	—	—	12	6	—	8	44	9	8	—	1	1	1	—	—	7	2	6	—	—	—
2d Hall,	—	—	2	—	—	—	—	24	—	—	16	52	3	1	—	3	—	—	—	—	8	1	1	—	—	—
3d and 4th Halls,	12	—	—	—	—	—	—	—	—	—	14	58	3	—	—	2	—	—	—	—	—	1	—	—	—	—
Middle 1st Hall,	6	—	1	—	—	—	—	12	—	—	9	46	—	—	—	2	—	—	—	—	6	—	—	—	—	—
2d Hall,	—	—	—	—	—	—	—	—	—	—	11	34	—	—	—	2	—	—	—	—	8	—	—	—	—	—
3d and 4th Halls,	6	—	—	—	—	—	—	24	—	—	14	90	3	—	—	2	—	—	—	—	13	2	—	—	—	—
Lower 1st Hall,	—	—	—	—	—	—	—	12	6	—	10	16	1	—	—	2	—	—	—	—	11	—	—	—	—	—
2d Hall,	—	—	—	—	—	—	—	18	—	—	16	48	4	—	—	1	—	—	—	—	7	2	—	—	—	—
3d and 4th Halls,	—	—	1	—	—	—	—	—	12	—	13	54	—	2	—	1	—	—	—	—	4	—	1	—	—	—
<i>Women's Department</i>																										
Upper 1st Hall,	—	—	—	2	—	—	—	6	—	—	12	42	1	2	—	1	2	1	—	—	—	—	3	—	—	—
2d Hall,	—	—	—	—	—	—	—	—	—	—	18	62	—	1	—	1	—	—	—	—	—	—	15	—	—	—
3d Hall,	—	—	—	—	—	—	—	—	12	—	11	32	1	2	—	1	—	—	—	—	—	12	6	—	—	—
4th Hall,	12	—	—	—	6	6	24	24	—	—	8	48	—	—	—	1	—	—	—	—	—	5	—	—	—	—
Middle 1st Hall,	—	—	1	—	—	—	—	6	—	—	18	62	—	—	—	2	—	—	—	—	—	10	2	—	—	—
2d Hall,	—	—	4	—	—	—	12	12	—	—	28	86	—	—	—	2	—	—	—	—	—	14	5	—	—	—
3d Hall,	—	—	—	—	6	6	—	—	—	—	18	78	—	—	—	6	—	—	—	—	—	13	2	—	—	—
4th Hall,	6	—	—	—	6	18	36	6	—	—	26	66	—	—	—	2	—	—	—	—	—	17	4	—	—	—
Lower 1st Hall,	—	—	2	—	—	—	—	12	6	—	18	66	—	—	—	—	—	—	—	—	—	14	2	—	—	—
2d Hall,	12	—	—	—	—	—	—	—	—	—	21	76	—	—	—	—	—	—	—	—	—	17	6	—	—	—
3d Hall,	12	—	—	—	—	—	—	—	—	—	13	44	—	—	—	—	—	—	—	—	—	14	6	—	—	—
4th Hall,	—	—	4	—	—	—	—	—	—	—	4	184	—	—	—	—	—	—	—	—	—	10	1	—	—	—
Kitchen,	—	—	4	—	24	—	—	24	—	—	67	96	4	2	—	3	—	—	—	—	2	—	—	—	—	—
Rear,	—	—	4	—	—	—	—	—	16	—	92	146	3	3	—	1	—	—	—	—	—	—	—	—	—	—
Centre,	—	—	2	—	—	—	—	34	—	—	6	63	4	4	2	3	—	—	—	—	1	—	—	—	—	—
Aggregates,	72	—	24	14	42	72	86	266	166	6	471	1,487½	32	37	27	18	72	43	7	75	7	169	33	120	—	—

*30. Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING- ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1889.</b>								
October, .	674	93	186	279	282	50	364	414
November, .	616	120	173	293	223	54	355	409
December, .	563	124	171	295	252	52	355	407
<b>1890.</b>								
January, .	564	124	191	315	254	54	374	428
February, .	607	112	167	279	225	48	319	367
March, .	534	124	181	305	263	52	333	385
April, .	909	120	145	265	260	52	359	411
May, .	871	124	142	266	291	54	359	413
June, .	820	120	148	268	231	50	315	365
July, .	845	124	167	291	253	54	353	407
August, .	787	124	136	260	251	52	377	429
September, .	804	120	187	307	298	50	386	436
Totals, .	8,594	1,429	1,994	3,423	3,083	622	4,249	4,831

*31. List of Articles made in the Sewing-Room.*

Dresses, . . . . .	293	Sheets, . . . . .	677
Waists, . . . . .	29	Pillow cases, . . . . .	507
Chemise, . . . . .	277	Spreads hemmed, . . . . .	109
Drawers, . . . . .	196	Burial robes, . . . . .	4
Skirts, . . . . .	170	Bed ticks, . . . . .	60
Night dresses, . . . . .	15	Pillow ticks, . . . . .	66
Hats trimmed, . . . . .	39	Bolster cases, . . . . .	34
Caps, . . . . .	368	Clothes bags, . . . . .	33
Aprons, . . . . .	248	Dish towels, . . . . .	310
Collars, . . . . .	256	Roller towels, . . . . .	220
Shirts, . . . . .	272	Yards carpeting made, . . . . .	661
Camisoles, . . . . .	37	Carpet strips hemmed, . . . . .	76
Suspenders, pairs, . . . . .	86	Cushions, . . . . .	4
Table cloths, . . . . .	21	Dusters, . . . . .	45
Napkins hemmed, . . . . .	12	Articles repaired, . . . . .	26,155
Curtains, . . . . .	148		

*32. Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	18
Hair mattresses made, new ticks, . . . . .	45
Hair mattresses made, old materials, . . . . .	157
Hair pillows made, new materials, . . . . .	17
Hair pillows made, new ticks, . . . . .	25
Hair pillows overhauled, hair repicked, . . . . .	85

33. *Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	954 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.40	1 86
1886-87, . . . . .	854 97	478.54	1 79
1887-88, . . . . .	901 74	470.25	1 91
1888-89, . . . . .	955 51	469.10	2 04
1889-90, . . . . .	977 17	470.50	2 07



*34. Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From What Cause.
Charles E. Forbes,* .	Northampton, . .	1856	1857	Term expired.
Lucien C. Boynton,* .	Uxbridge, . . .	1856	1858	Term expired.
Eliphalet Trask, . .	Springfield, . .	1856	1875	Term expired.
John C. Russell,* . .	Great Barrington, .	1856	1859	Resigned.
Horace Lyman, . . .	Greenfield, . . .	1856	1857	Removed.
Charles Smith, . . .	Northampton, . .	1857	1860	Resigned.
Luther V. Bell,* . .	Somerville, . . .	1857	1859	Resigned.
Zebina L. Raymond,* .	Greenfield, . . .	1858	1859	Resigned.
Franklin Ripley,* . .	Greenfield, . . .	1859	1860	Died in office.
Edward Dickinson,* .	Amherst, . . . .	1859	1864	Resigned.
Walter Laffin,* . . .	Pittsfield, . . . .	1859	1866	Term expired.
Silas M. Smith,* . . .	Northampton, . .	1860	1863	Term expired
Charles Allen, . . . .	Greenfield, . . . .	1860	1861	Resigned.
Alfred R. Field,* . . .	Greenfield, . . . .	1861	1864	Resigned.
Edward Hitchcock, . .	Amherst, . . . .	1863	1879	Resigned.
Silas M. Smith,* . . .	Northampton, . .	1864	1887	Died in office.
Edmund H. Sawyer,* .	Easthampton, . .	1864	1879	Died in office.
Henry L. Sabln,* . . .	Williamstown, . .	1866	1876	Term expired.
Adams C. Deane, . . .	Greenfield, . . . .	1875	-	Still in office.
Henry W. Taft, . . . .	Pittsfield, . . . .	1876	-	Still in office.
William M. Gaylord, . .	Northampton, . .	1879	1883	Term expired.
Lyman D. James, . . .	Williamsburg, . .	1879	-	Still in office.
Christopher Merritt, . .	Springfield, . . .	1883	1888	Term expired.
Sarah A. Woodworth, . .	Chicopee, . . . .	1884	-	Still in office.
Sarah M. Butler, . . .	Northampton, . .	1884	-	Still in office.
John L. Otis, . . . .	Florence, . . . .	1887	1890	Resigned.
N. A. Leonard, . . . .	Springfield, . . .	1888	-	Still in office.
Alvan Barrus, . . . .	Goshen, . . . .	1890	-	Still in office.

\* Deceased.

35. *Officers and Employees.*

Time employed, Oct. 1, 1890.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M.D., superintendent, . . . . .	21	9	16
John A. Houston, M.D., assistant physician, . . . . .	1	—	7
Charles M. Holmes, M.D., assistant physician, . . . . .	1	2	21
Emily F. Wells, M.D., female physician, . . . . .	5	9	—
Walter B. Welton, clerk, . . . . .	24	7	16
John Mercier, farmer, . . . . .	23	2	—
Danford Morse, engineer, . . . . .	25	6	9
Robert H. Gallivan, supervisor, . . . . .	17	5	13
Lucy A. Gilbert, supervisor, . . . . .	23	7	20
Francis A. Thompson, assistant steward, . . . . .	—	5	10
George B. Walker, baker, . . . . .	6	3	22
William Rice, assistant baker, . . . . .	1	3	3
Minnie A. Smith, seamstress, . . . . .	2	3	27
Lizzie E. Rice, laundress, . . . . .	1	2	6
Inez M. Field, assistant clerk, . . . . .	—	9	3
Lucie L. Barrett, assistant supervisor, . . . . .	4	—	12
Bradamant Fairbanks, assistant seamstress, . . . . .	1	5	14
Mattie G. Jones, assistant laundress, . . . . .	1	1	11
Emma Smith, assistant laundress, . . . . .	1	2	20
Mary Radford, assistant laundress, . . . . .	—	1	23
Henry W. Estey, attendant, . . . . .	8	6	7
Thomas Lavelle, attendant, . . . . .	4	6	23
Anson T. Hale, attendant, . . . . .	3	5	—
Jeremiah J. Regan, attendant, . . . . .	1	9	3
Daniel W. Webster, attendant, . . . . .	1	6	9
James F. Wells, attendant, . . . . .	1	4	8
Edward N. Aldrich, attendant, . . . . .	1	2	29
William Duff, attendant, . . . . .	—	7	—
Rufus H. Cowles, attendant, . . . . .	—	6	4
Fred S. Peters, attendant, . . . . .	—	3	7
James Kennedy, attendant, . . . . .	—	2	14
Harry Dickinson, attendant, . . . . .	—	2	13
Joseph W. Shaw, attendant, . . . . .	—	1	26
Jeannette McLean, attendant, . . . . .	7	1	3
Philomene Goyette, attendant, . . . . .	7	6	13
Alice A. Hawkes, attendant, . . . . .	2	9	27
Celeste Goyette, attendant, . . . . .	5	6	16
Harriet L. Strong, attendant, . . . . .	2	9	1
Marion Darling, attendant, . . . . .	1	6	15
Katy A. Cook, attendant, . . . . .	1	2	5
Mary Sweeney, attendant, . . . . .	1	1	28
Adeline D. Morgan, attendant, . . . . .	2	—	12
Flora E. Jones, attendant, . . . . .	1	2	14
Mary E. McClellan, attendant, . . . . .	2	2	13
Ellen L. Potter, attendant, . . . . .	—	9	25
Ida Sloan, attendant, . . . . .	—	6	—
Hattie LeBaron, attendant, . . . . .	—	2	2
Lucretia D. Pittsinger, attendant, . . . . .	—	1	—
Maggie McKenzie, night watch, . . . . .	—	—	14

## 70 NORTHAMPTON LUNATIC HOSPITAL. [Oct.'90.

35. *Officers and Employees*—Concluded.

NAMES.	Years.	Months.	Days.
Hattie Darling, centre, . . . . .	3	10	—
Belle Warren, centre, . . . . .	1	5	6
Ellen Drugg, centre, . . . . .	—	—	28
Jennie Smith, farmer's dining room, . . . . .	—	11	—
Mary Mangan, cook, . . . . .	2	2	5
Alice A. Miller, assistant cook, . . . . .	1	5	14
Sadie Kellogg, assistant cook, . . . . .	—	3	21
Nellie O'Leary, assistant cook, . . . . .	—	2	11
Lillian McLean, assistant cook, . . . . .	—	—	5
Mercy Ranney, rear, . . . . .	—	8	17
William C. Hall, assistant engineer, . . . . .	25	—	20
Nicholas Riel, night engineer, . . . . .	14	9	25
Moses Bartlett, watchman, . . . . .	1	6	25
Sifroi Belville, carpenter, . . . . .	20	5	7
Walter Tower, carpenter, . . . . .	12	10	—
Alfred Parenteau, painter, . . . . .	25	1	18
David Mercier, coachman, . . . . .	13	7	14
Benjamin Rockwell, assistant farmer, . . . . .	23	4	—
Henry Wilson, assistant farmer, . . . . .	11	5	8
James Madden, assistant farmer, . . . . .	15	—	29
Eugene Sullivan, assistant farmer, . . . . .	15	5	—
George E. Hunter, assistant farmer, . . . . .	4	5	19
Hermion Miller, assistant farmer, . . . . .	1	5	14
George W. Braman, assistant farmer, . . . . .	1	10	8
John Gray, assistant farmer, . . . . .	1	6	4
James Davidson, assistant farmer, . . . . .	—	6	2
James Works, assistant farmer, . . . . .	—	6	—
Alfred Belville, car boy, . . . . .	—	8	2
George M. Locke, assistant cook, . . . . .	1	1	7





**THIRTY-SIXTH ANNUAL REPORT**

**OF**

**THE TRUSTEES**

**OF THE**

**NORTHAMPTON LUNATIC HOSPITAL,**

**FOR THE**

**YEAR ENDING SEPTEMBER 30, 1891.**

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**BOSTON:**  
**WRIGHT & POTTER PRINTING CO., STATE PRINTERS,**  
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**1892.**



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# OFFICERS

## OF THE

### NORTHAMPTON LUNATIC HOSPITAL.

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#### TRUSTEES.

ADAMS C. DEANE, M.D.,	. . . . .	GREENFIELD.
HENRY W. TAFT, Esq.,	. . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq.,	. . . . .	WILLIAMSBURG.
ELISHA MORGAN, Esq.,	. . . . .	SPRINGFIELD.
HON. ALVAN BARRUS,	. . . . .	GOSHEN.
Mrs. SARAH A. WOODWORTH,	. . . . .	CHICOPEE.
Mrs. SARAH M. BUTLER,	. . . . .	NORTHAMPTON.

#### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D.,	. . . . .	<i>Superintendent.</i>
JOHN A. HOUSTON, M.D.,	. . . . .	<i>Assistant Physician.</i>
CHARLES M. HOLMES, M.D.,	. . . . .	<i>Assistant Physician.</i>
EMILY F. WELLS, M.D.,	. . . . .	<i>Female Physician.</i>
WALTER B. WELTON,	. . . . .	<i>Clerk.</i>
JOHN MERCIER,	. . . . .	<i>Farmer.</i>
DANFORD MORSE,	. . . . .	<i>Engineer.</i>

#### TREASURER.

EDWARD B. NIMS,	. . . . .	NORTHAMPTON.
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Office at the Hospital.

#### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN,	. . . . .	<i>Male Supervisor.</i>
LUCY A. GILBERT,	. . . . .	<i>Female Supervisor.</i>
THOMAS C. POWERS,	. . . . .	<i>Steward.</i>
MINNIE A. SMITH,	. . . . .	<i>Seamstress.</i>
KATE BARTLETT,	. . . . .	<i>Laundress.</i>
GEORGE B. WALKER,	. . . . .	<i>Baker.</i>



# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The report of the Northampton Lunatic Hospital for the official year ending Sept. 30, 1891, is hereby submitted, it being the thirty-sixth annual report. A brief statement of the changes in the population of the hospital for the year is given, together with a summary of the improvements and alterations which have been made.

The number of patients in the hospital Oct. 1, 1890, was 495, of which 243 were men and 252 women. Eighty-two men and 59 women were admitted within the year, a total of 141, making the whole number of cases under treatment 636, — 325 men and 311 women. One hundred men and 83 women were discharged, including 31 deaths, 19 of men and 12 of women. Two hundred and twenty-five men and 228 women (a total of 453) remained in the hospital Sept. 30, 1891. The average daily number for the year was 457. The largest number of patients on any one day was 505, the smallest 441. Of the 152 patients who were discharged, 45 left the hospital as recovered, 14 much improved, 53 improved and 40 unimproved. These figures represent the condition of the patients at the time of leaving the hospital.

Two patients died by their own hands. The circumstances attending each death were such that no blame can be attached to those who had the care of them.

The general condition of the hospital has been satisfactory during the year. No epidemic has prevailed.

At each of the monthly meetings all the halls were visited and carefully inspected; at each meeting a report for the month is presented by the superintendent, giving the numerical changes in population, the name, residence and status of each patient admitted, the name, condition and status of each patient discharged, and the name, cause of death and status of those who have died. All bills are examined, approved and compared with the entries in the cash book. A financial statement is also presented, giving the amount of money on hand, the amount due the hospital, the estimated value of purchased supplies on hand and the liabilities. A record of the improvements made is given, with recommendations for the coming month; also a statement of any accident or any unusual occurrence within the month.

When the hospital was erected, it was found that the accommodations were larger than were required for the western part of the State. Consequently, from the opening of the hospital in the summer of 1858 to the year 1877-78, a large number of patients were transferred from the eastern hospitals. Within the past thirteen years two transfers, of 15 and 10 patients from the Danvers Hospital, were made, the latter in June, 1886. Of the patients formerly transferred from other hospitals, 39 still remain in the hospital. During the first thirteen years of the hospital's existence patients were received from other States. The last commitment from out of the State was on Oct. 4, 1871. Within the past thirteen years several large transfers of patients have been made from this to the eastern hospitals. The five cities and some of the large towns in western Massachusetts have accommodations for the chronic insane in connection with their almshouses, to which a large number of patients have been removed.

The system of boarding out patients in families has taken away a goodly number. Notwithstanding these removals to other institutions, the hospital continues to be filled to its normal capacity.

The trustees, believing that radical and extensive changes in the hospital buildings had become necessary, made application to the last Legislature for an appropriation to enable them to commence such changes during the present year.

In response to such application, the Legislature “*Resolved*, That there be allowed and paid out of the treasury of the Commonwealth a sum not exceeding thirty thousand dollars, to be expended under the direction of the trustees of the State Lunatic Hospital at Northampton, for the purpose of enlarging the hospital and for other necessary repairs.”

Work was begun as soon as practicable, and has been carried on as rapidly as circumstances would allow. Already a building 74 feet in length and 34 in width is well under way. It consists of a basement story for store-rooms and two stories above, which will contain nineteen lodging-rooms for the male help. It is built of brick, with partitions of the same material, iron staircases, wire lathing, and will be made as secure against fire as practicable.

Another building, 113 feet in length and 59 in width, is also well advanced. This will contain shops for the carpenters and engineer and machinery, an engine room, coal bunkers, a room for four boilers, and one for an electric-light plant. A large chimney is also under way. The building which now contains the shops and the heating apparatus is also being changed into a laundry. It is proposed to add another story to this building, for room for the female help. It is also proposed to enlarge the chapel about one-half. These changes will place the rear wing of the hospital on a good working basis, preparatory to enlarging and improving the hospital proper. To this end an appropriation of fifty thousand dollars will be asked of the next Legislature.

The usual repairs and some improvements have been made within the year. The green-house was completed, and is now in successful operation. The eighteen dining-rooms were furnished with oak chairs, and considerable furniture, such as bureaus, wardrobes, settees, etc., has been placed in the halls. Careful attention has been paid to the cultivation of the farm crops, the result of which is that there is a gradual increase in the total products and in the farm stock. The fields are being gradually cleared of rocks and the pastures of brush. Drains are put in, and liberal amounts of fertilizers are purchased and applied. The four out-lying houses, now occupied by employees, have been painted and otherwise improved, also most of the farm buildings. The

finances of the hospital are in a satisfactory condition, as may be seen from the treasurer's report.

Although the rate of board is very low, still the income has been sufficient to meet the current expenses. The total amount charged for board for each class of patients is as follows : —

State patients, . . . . .	\$15,373 89
Town patients, . . . . .	50,437 03
Private patients, . . . . .	18,624 54
Total, . . . . .	<u>\$84,435 46</u>

No changes have occurred in the official staff within the year. On the 1st of October, 1891, Walter B. Welton, who has been the efficient and faithful clerk of the hospital since Feb. 14, 1866, resigned his office on account of failure of health; his resignation is to take effect Jan. 1, 1892. Lewis F. Babbitt was elected to fill the vacancy.

In the discharge of their duties the trustees have had the cordial and intelligent co-operation of the physicians and other officers of the institution.

ADAMS C. DEANE.  
HENRY W. TAFT.  
LYMAN D. JAMES.  
ELISHA MORGAN.  
SARAH A. WOODWORTH.  
SARAH M. BUTLER.  
ALVAN BARRUS.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1891.

---

Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, first, . . . . .	" 1,500 00
Assistant physician, second, . . . . .	" 600 00
Female physician, . . . . .	" 900 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 1,200 00
Assistant clerk, . . . . .	per month, 25 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 16 00
Laundress, . . . . .	" 18 00
Assistant laundresses (2), . . . . .	" 18 00
Assistant laundress, . . . . .	" 16 00
Baker, . . . . .	" 40 00
Steward, . . . . .	" 50 00
Assistant steward, . . . . .	" 25 00
Attendants (male, 5), . . . . .	" 30 00
Attendants (male, 2), . . . . .	" 25 00
Attendants (male, 2), . . . . .	" 23 00
Attendants (male, 4), . . . . .	" 21 00
Attendant (female), . . . . .	" 20 00
Attendants (female, 14), . . . . .	" 18 00
Night watch (female), . . . . .	" 16 00
Housework, centre (female), . . . . .	" 17 00
Housework, centre (female, 2) . . . . .	" 15 00
Cook (female), . . . . .	" 18 00
Assistant cook (female), . . . . .	" 16 00
Assistant cook (female), . . . . .	" 15 00
Assistant cook (female), . . . . .	" 14 00



# 12      NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Assistant cook (male), . . . . .	per month,	\$30 00
Farmer's dining-room (female), . . . . .	"	14 00
Housework, rear building (female), . . . . .	"	15 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Night engineer, and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	30 00
Car boy, . . . . .	"	18 00
Florist, . . . . .	"	50 00
Farm hands (2), . . . . .	"	30 00
Farm hands (4), . . . . .	"	28 00
Farm hand, . . . . .	"	25 00
Farm hand, . . . . .	"	23 00
Farm hand, . . . . .	"	20 00

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1891.

---

Live stock on hand, . . . . .	\$8,992 00
Produce of farm on hand, . . . . .	10,280 20
Carriages and agricultural implements, . . . . .	3,530 00
Machinery and mechanical fixtures, . . . . .	4,940 00
Beds and bedding in inmates' department, . . . . .	12,750 00
Other furniture in inmates' department, . . . . .	7,400 00
Personal property of State in superintendent's department,*	8,800 00
Ready-made clothing, . . . . .	2,987 55
Dry goods, . . . . .	4,204 69
Provisions and groceries, . . . . .	3,739 10
Drugs and medicine, . . . . .	575 00
Fuel, . . . . .	4,477 60
Library, . . . . .	1,000 00
Paints and oils, . . . . .	525 00
Total, . . . . .	<u>\$74,201 14</u>

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other apartments.

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as treasurer of the hospital, for the fiscal year ending with the 30th of September, 1891. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

### ASSETS.

Four hundred and ninety-three acres of land,	\$52,121 00
Hospital building, . . . . .	260,000 00
Farm-house, \$1,900; brick house, \$1,800, .	3,700 00
Four dwellings, . . . . .	2,000 00
Store-house and shops, . . . . .	15,000 00
Two barns, . . . . .	5,150 00
Horse stable, . . . . .	1,800 00
Scullery and wood-house, . . . . .	650 00
Lumber-house, . . . . .	1,000 00
Pump-house, . . . . .	800 00
Cart shed, . . . . .	450 00
Coal-house, . . . . .	100 00
Piggery, . . . . .	3,000 00
Cattle shed, . . . . .	1,200 00
Fire-proofs for oils and paints, . . . . .	500 00
Two ice-houses, . . . . .	450 00
Total, . . . . .	<hr/> \$347,921 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the trustees' report, . . . . .	\$74,201 14
------------------------------------------------------------------------------------------	-------------

### RECEIPTS.

Cash on hand Sept. 30, 1890, . . . . .	\$22,881 22
Received from State treasurer, . . . . .	15,861 83
from towns, . . . . .	51,217 53
from individuals, . . . . .	17,685 63
from sales, . . . . .	2,643 11
from interest, . . . . .	830 20
Total, . . . . .	<hr/> \$111,119 52

## PAYMENTS.

1. Salaries, wages and labor, . . . . .		\$30,805 72
2. Provisions and supplies:—		
Meats of all kinds, . . . . .	\$4,886 50	
Fish of all kinds, . . . . .	1,430 64	
Fruit and vegetables, . . . . .	1,390 86	
Flour, . . . . .	3,105 00	
Grain and meal for table, . . . . .	774 55	
Tea, coffee and chocolate, . . . . .	716 46	
Grain and meal for stock, . . . . .	5,016 39	
Sugar and molasses, . . . . .	1,647 70	
Butter and cheese, . . . . .	4,103 76	
Salt and other groceries, . . . . .	1,829 35	
All other provisions, . . . . .	606 56	
		<hr/> 25,507 77
3. Clothing, . . . . .		2,969 96
4. Fuel and lights, . . . . .		6,105 19
5. Medicines and medical supplies, . . . . .		794 78
6. Furniture, beds and bedding, . . . . .		2,703 47
7. Transportation and travelling expenses, . . . . .		637 20
8. Ordinary construction and repairs, . . . . .		2,253 37
9. Extraordinary construction and repairs, . . . . .		3,498 79
10. Miscellaneous expenses, including:—		
1. Farm stock, . . . . .	\$1,945 00	
2. Farm supplies, . . . . .	2,615 41	
3. Water, . . . . .	1,176 34	
4. Minor expenses, . . . . .	1,021 98	
5. Contingencies, . . . . .	686 20	
		<hr/> 7,444 93
Total expenditures, . . . . .		<hr/> \$82,721 18

## LIABILITIES.

Salaries and wages due Oct. 1, 1891, :		\$4,166 09
Miscellaneous bills due, . . . . .		1,623 68
		<hr/> \$5,789 77
Due the institution for board Oct. 1, 1891:—		
From State, . . . . .	\$3,854 08	
town, . . . . .	13,189 49	
individuals, . . . . .	4,519 51	
Due from the treasurer, Sept. 30, 1891, . . . . .	28,398 34	
		<hr/> \$49,961 42

## SUMMARY.

Total receipts, . . . . .	\$111,119 52
Total payments, . . . . .	82,721 18
	<hr/>
Cash on hand Sept. 30, 1891, . . . . .	\$28,398 34

# 16 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Total liabilities, . . . . .	\$5,789 77
Total debts due the institution, . . . . .	49,961 42
Total expenditures, . . . . .	82,721 18

Dividing this sum by 457, the average number of patients,	
we have the average expenditure per patient, . . . . .	\$181 00
And the average weekly expenditure per patient, . . . . .	3 47

Deducting from the total expenditure, . . . . .	\$82,721 18
The extraordinary expenses, . . . . .	3,498 79

We have the current expenses, . . . . . \$79,222 39

Dividing \$79,222.39 by 457, the average number of patients,	
we have the average expenditure per patient, . . . . .	\$173 35
Making the average weekly expenditure per patient, . . . . .	3 32

Adding to the current expenses, . . . . .	\$79,222 39
The decrease of personal assets, . . . . .	2,504 24

We have the necessary cost for the year, . . . . . \$81,726 63

Dividing \$81,726.63 by 457, the average number of patients,	
we have, as the annual cost of each patient, . . . . .	\$178 83
Making the average weekly cost of each patient, . . . . .	3 42

EDWARD B. NIMS,  
*Treasurer.*

We have examined, as auditors, the accounts of the treasurer, and found a satisfactory voucher for every entry.

LYMAN D. JAMES,  
E. MORGAN,  
*Auditors.*

## FINANCIAL STATEMENT.

---

Of the appropriation made by the Legislature of 1891, to wit: “*Resolved*, That there be allowed and paid out of the treasury of the Commonwealth a sum not exceeding thirty thousand dollars, to be expended under the direction of the trustees of the State Lunatic Hospital at Northampton, for the purpose of enlarging the hospital and for other necessary repairs:” —

Amount of appropriation,	. . . . .	\$30,000 00
Drawn to Sept. 30, 1891, —		
For architect,	. . . . .	\$750 00
For labor,	. . . . .	5,962 57
For building materials,	. . . . .	4,110 24
		<hr/> \$10,822 81

EDWARD B. NIMS,

*Treasurer.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The superintendent respectfully presents his report for the year 1890-91. The custom of making annual reports is a desirable one, inasmuch as it keeps the public informed as to the condition of the hospital, and the work that is accomplished each year. The demand for such work is constant, and without special variation; the reports of the work are therefore necessarily very similar. When we take into account the importance of the work and the value of the results, the statements concerning it become interesting.

The following table gives the changes in population for the year:—

## 1. — General Statistics of the Year.

	INSANE.			HABITUAL DRUNKARDS.		
	Males.	Fe- males.	Totals.	Males.	Fe- males.	Totals.
Patients in hospital Oct. 1, 1890, . . . . .	243	252	495	-	-	-
Admitted within the year, . . . . .	78	50	137	3	-	3
Whole number of cases within the year, . . . . .	321	311	632	3	-	3
Discharged within the year, . . . . .	97	83	180	3	-	3
Viz.: as recovered at the time of leaving the hospital, . . . . .	28	16	44	1	-	1
as much improved, . . . . .	7	7	14	-	-	-
as improved, . . . . .	26	26	52	1	-	1
as not improved, . . . . .	17	22	39	1	-	1
Deaths, . . . . .	19	12	31	-	-	-
Patients remaining Sept. 30, 1891, . . . . .	225	228	453	-	-	-
Viz.: supported as State patients, . . . . .	42	45	87	-	-	-
supported as town patients, . . . . .	149	146	295	-	-	-
supported as private patients, . . . . .	34	37	71	-	-	-
Number of different persons within the year, . . . . .	318	305	623	3	-	3
Persons admitted, . . . . .	77	57	134	3	-	3
Persons recovered, . . . . .	28	15	43	1	-	1
Daily average number of patients, . . . . .	227.58	228.95	456.53	.46	-	.46
Viz.: State patients, . . . . .	43.17	47.54	90.71	-	-	-
town patients, . . . . .	150.515	147.2	297.715	.065	-	.065
private patients, . . . . .	33.898	34.21	68.108	.307	-	.307

## 1. — General Statistics of the Year — Concluded.

	VOLUNTARY PATIENTS.			AGGREGATE.		
	Males.	Fe- males.	Totals.	Males.	Fe- males.	Totals.
Patients in hospital Oct. 1, 1890, . . .	-	-	-	243	252	495
Admitted within the year, . . .	1	-	1	82	59	141
Whole number of cases within the year, . . .	1	-	1	325	311	636
Discharged within the year, . . .	-	-	-	100	83	183
Viz.: as recovered at the time of leaving the hospital, . . .	-	-	-	29	16	45
as much improved, . . .	-	-	-	7	7	14
as improved, . . .	-	-	-	27	26	53
as not improved, . . .	-	-	-	18	22	40
Deaths, . . .	-	-	-	19	12	31
Patients remaining Sept. 30, 1891, . . .	-	-	-	225	228	453
Viz.: supported as State patients, . . .	-	-	-	42	45	87
• supported as town patients, . . .	-	-	-	149	146	295
supported as private patients, . . .	-	-	-	34	37	71
Number of different persons within the year, . . .	1	-	1	322	305	627
Persons admitted, . . .	1	-	1	81	57	138
Persons recovered, . . .	-	-	-	29	15	44
Daily average number of patients, . . .	.008	-	.008	228.05	228.95	457.
Viz.: State patients, . . .	-	-	-	43.17	47.54	90.71
town patients, . . .	-	-	-	150.58	147.2	297.78
private patients, . . .	.008	-	.008	34.30	34.21	68.51

On the 1st of October, 1891, 5 women and 2 men were transferred from State to town charge. Hence the new year will begin with:—

	Males.	Females.	Totals.
State patients, . . .	40	40	80
Town patients, . . .	151	151	302

Eighty-two men and 59 women were admitted within the year, making a total of 141 cases. Four hundred and ninety-five persons remained in the hospital Sept. 30, 1890, — 243 men and 252 women. The total number of cases under treatment within the year was 636, — 325 men and 311



women. One hundred eighty-three cases were discharged. — 100 men and 83 women, — including 31 deaths; which makes the number of persons remaining in the hospital Sept. 30, 1891, 453, — 225 men and 228 women. The daily average for the year was 457, — 228.05 men, 228.95 women. The number of admissions was less by 29 than in the preceding year, and a large number of chronic cases were discharged. These facts will account for the reduction in the population of the hospital. The proportion of curable cases admitted was larger, one result of which is a larger per cent. of recoveries than usual. Of the 152 cases which left the hospital, 88 returned to their homes, 45 were removed to almshouses, 3 eloped, 4 were placed out in families to board and 12 were removed to the criminal asylum at the State Farm, Bridgewater. One woman was admitted, discharged, readmitted and discharged a second time; 1 man and 1 woman were admitted, discharged and readmitted; which makes the number of persons admitted within the year 138, — 81 men and 57 women. Two men and 3 women were discharged and readmitted, 1 woman was discharged, readmitted and discharged a second time; making the whole number of persons under treatment within the year 627, — 322 men and 305 women. The number of first admissions of cases was 118, of second admissions 18, of third admissions 4, of fifth admissions 1. The largest number of patients in the house on any one day was 505. This is the largest number that ever was present at any time since the opening of the hospital in 1858. The smallest number on any day in the year was 441.

#### STATUS OF PATIENTS.

The patients remaining in the hospital Oct. 1, 1890, were classed as follows: State, 101; town, 323; private, 71. Of the 141 cases admitted 31 were supported by the State, 81 by towns and 29 by individuals. Of the 163 discharged, 35 were State, 121 town and 27 were private patients. Of the 453 patients remaining Sept. 30, 1891, 87 were State, 295 town and 71 private patients. The discrepancies in the numbers arise from transfers which were made from

one class to another in the course of the year. The following table gives the weekly average of the different classes for two years past:—

	1889-90.			1890-91.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, .	48.42	48.44	96.86	45.35	44.55	89.90
Town patients, .	151.46	159.71	311.17	148.84	147.44	296.28
Private patients, .	28.42	33.65	62.07	32.41	36.16	68.57

The change in status from State to town patients still continues. As reported in 1879-80, the average of State patients was 197.03, town and city patients, 198.01, private patients, 55.46,—the average of State and town patients being nearly equal.

#### RECOVERIES.

Forty-five patients were discharged as recovered, including one inebriate. Three of these had been discharged as recovered on previous admissions. One woman was discharged twice as recovered within the year. In the latter case the relapse from the former recovery was occasioned by a combination of very unfavorable circumstances, and might have been reasonably expected. The per cent. of recoveries reckoned on the number of admissions was 31.9; on the whole number discharged, 24.5; on the number discharged, not including deaths, 29.6.

Forty-two recovered on their first admission, 2 on the second admission and 1 on the third. Several of those patients who were discharged as much improved or improved continued to improve after leaving the hospital, and recovered before the end of the year. While we cannot consistently reckon them as discharged recovered, they probably would have recovered if they had remained in the hospital.

## DEATHS.

The health of the patients in general has been up to the usual standard, and no unusual form of disease has prevailed ; but, owing to circumstances beyond the control of the physicians, the total number of deaths, as well as the percentage, is a little larger than in the preceding year. The whole number of deaths within the year was 31, — 19 men and 12 women. The rate per cent., reckoned on the whole number under treatment, was 4.87, and on the daily average 6.78. As usual, a large proportion of the deaths occurred as a result of chronic disease. One woman eighty-six years of age died of pneumonia, and 1 woman of exhaustion of acute melancholia. These were the only cases in which the disease could be called acute. Seven persons died of phthisis ; 2 died of heart disease of long duration ; 3 deaths were caused by general paralysis of the insane ; 3 by exhaustion of chronic brain disease, one of them after a residence in the hospital of thirty-two years ; 1 from exhaustion of senile mania of long duration ; 1 resulted from cancer ; 2 from chronic nephritis. In four cases the only known cause was old age ; 2 died by suicide ; 1 feeble woman from accidental strangulation ; and 2 deaths resulted from cerebral hemorrhage, after several attacks of a similar character. Four persons who were supported by the State died, 20 who were wards of towns and cities, and 7 private patients. The average age of the 31 persons who died was fifty-seven years eight months. Six of these were over seventy-five years of age. The number of deaths for each year since 1858, and the ratios, will be found in the annexed table : —

*Deaths and their Ratios, from Sept. 30, 1858, to Oct. 1, 1891.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per Cent. on Whole No. of patients treated.	Per Cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.08	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.40	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47
1887-88, .	635	470.25	14	17	31	4.88	6.59
1888-89, .	636	469.10	18	7	25	3.93	5.32
1889-90, .	616	470.50	12	9	21	3.40	4.46
1890-91, .	636	457.00	19	12	31	4.87	6.78

### WORSHIP AND ENTERTAINMENT.

The assemblies of patients on Sunday for religious service and in the evening of other days have been continued during the year. The average attendance at the service on Sabbath afternoons was 287.5; the largest number present at any one time, 323. The attendance at the evening assemblies varies from about 225 to 300 persons. It is sufficient to say that these exercises are very satisfactory, both as to the results and the appreciation given to them by those who attend. There is no part of the hospital work which gives a better return for the labor expended than this. The moral effect upon many patients is very decided, both in the direct impressions produced and in the salutary and continual influence which is brought to bear upon them.

#### *Exercises in Chapel.*

#### 1. ON THE SABBATH:—

Divine worship, . . . . . 52 days.

#### 2. ON SECULAR EVENINGS:—

##### (a) *Readings and Recitations, opened and closed with music:—*

The Bible, . . . . .	1 day.
The Bible and selections of poetry, . . . . .	28 days.
The Bible and selections of prose, . . . . .	1 day.
The Bible and selections of poetry and prose, . . . . .	21 days.
Miscellaneous selections of prose, . . . . .	92 days.
Miscellaneous selections of poetry, . . . . .	5 days.
Miscellaneous selections of poetry and prose, . . . . .	44 days.
Miscellaneous selections and recitations, . . . . .	1 day.

##### (b) *Other Entertainments:—*

Pictures shown with stereopticon, . . . . .	8 days.
Concerts, . . . . .	1 day.
Ventriloquism, . . . . .	1 day.

##### (c) *Social Assemblies:—*

Quadrille parties, . . . . .	28 days,
No assembly, . . . . .	82 days.

365 days.

### FARM.

The season has been a favorable one in most respects for the farm. The number of acres devoted to cultivated crops was about sixty. The hay crop was lessened by the drought

of the early summer. The apple crop was less than the average, otherwise the amount of products was large and of excellent quality. The farm produces this year all the hay, milk, pork, vegetables, a large portion of the apples, a part of the beef and grain, which will be required. The farm is increasing in productiveness each year, and promises under the present methods of cultivation to become very valuable. The number of acres suitable for cultivation are gradually increasing, as the waste lands are reclaimed and cleared of rocks and brush. The following table gives the annual amount of hay produced :—

1864, estimated, . . . 40 tons.	1878, weighed, . . . 179 tons.
1865, " . . . 62 "	1879, " . . . 144 "
1866, " . . . 42 "	1880, " . . . 154 "
1867, weighed, . . . 82 "	1881, " . . . 213 "
1868, " . . . 86 "	1882, " . . . 170 "
1869, " . . . 91 "	1883, " . . . 197 "
1870, " . . . 74 "	1884, " . . . 174 "
1871, " . . . 75 "	1885, " . . . 251 "
1872, " . . . 91 "	1886, " . . . 269 "
1873, " . . . 84 "	1887, " . . . 302 "
1874, " . . . 120 "	1888, " . . . 305 "
1875, " . . . 100 "	1889, " . . . 331 "
1876, " . . . 111 "	1890, " . . . 336 "
1877, " . . . 154 "	1891, " . . . 295 "

One hundred and seven hogs were slaughtered, and the annexed table gives the amount of pork produced each year :—

*Pork raised upon the Farm.*

1865, . . . 6,265 pounds.	1879, . . . 13,569 pounds.
1866, . . . 5,443 "	1880, . . . 14,729 "
1867, . . . 7,416 "	1881, . . . 15,610 "
1868, . . . 7,791 "	1882, . . . 14,414 "
1869, . . . 8,469 "	1883, . . . 15,612 "
1870, . . . 7,447 "	1884, . . . 10,192* "
1871, . . . 7,863 "	1885, . . . 17,544 "
1872, . . . 11,366 "	1886, . . . 21,503 "
1873, . . . 10,511 "	1887, . . . 26,331 "
1874, . . . 12,024 "	1888, . . . 18,465 "
1875, . . . 12,693 "	1889, . . . 19,227 "
1876, . . . 12,467 "	1890, . . . 25,189 "
1877, . . . 13,605 "	1891, . . . 32,621 "
1878, . . . 14,451 "	

\* Quantity diminished by disease.

The number of animals at present owned by the hospital is as follows: 10 oxen, 96 cows and heifers, 4 bulls, 13 horses and colts, 243 swine, 225 poultry. The value of the farm to the hospital has often been mentioned in the annual reports. The large amount of farm products insures a generous supply for the tables, without regard to market value; for instance, the entire crop of apples, which last year amounted to about 800 barrels, was used in the hospital, notwithstanding the fact that they could have been sold for a high price. Uniformly a large quantity and variety of the best quality of vegetables are used. This might not be the case if the hospital was obliged to purchase them in the markets at high rates.

As in years past, a large amount of work has been done by patients. There are many sorts of farm work which do not require skilled labor.

The quantity of milk consumed was 30,624 gallons, one-third of which is given in the following table, the other two-thirds not being reckoned as a product, but charged to the cost of the animals and the food consumed by them.

*List of Farm Products in 1891.*

Hay (first growth), 222 tons, . . . . .	\$3,108 00
Hay (aftergrowth), 72½ tons, . . . . .	1,018 50
Corn fodder (dry), 24 tons, . . . . .	120 00
Corn, 500 bushels, . . . . .	350 00
Straw, 8 tons, . . . . .	96 00
Potatoes, 2,869 bushels, . . . . .	1,291 05
Broom seed, 50 bushels, . . . . .	25 00
Broom brush, 700 pounds, . . . . .	49 00
Carrots, 230 bushels, . . . . .	92 00
Sugar beets, 500 bushels, . . . . .	200 00
Beets, 128½ bushels, . . . . .	77 10
Onions, 510 bushels, . . . . .	255 00
Turnips, 450 bushels, . . . . .	112 50
Parsnips, 50 bushels, . . . . .	30 00
Beans (in shell), 177½ bushels, . . . . .	177 50
Beans (string), 19½ bushels, . . . . .	39 00
Pease (green), in pod, 182½ bushels, . . . . .	182 50
Sweet corn (green), in ear, 233 bushels, . . . . .	174 50
Tomatoes, 139 bushels, . . . . .	139 00
Lettuce, 114½ bushels, . . . . .	114 00
Cucumbers, 69½ bushels, . . . . .	69 50
Squash (summer), 63½ bushels, . . . . .	63 50

Squash (winter), 12,000 pounds,	\$120 00
Melons, 8,669 pounds,	86 69
Asparagus, 40 bushels,	90 00
Pie-plant, 63½ bushels,	63 50
Beet greens, 44 bushels,	44 00
Spinach, 54 bushels,	54 00
Cabbage, 3,200 heads,	96 00
Currants, 22 bushels,	66 50
Apples, 614 barrels,	675 40
Pears, 91 bushels,	91 00
Quinces, 6 bushels,	7 50
Beef, 2,261 pounds,	135 66
Veal (raised here), 2,209 pounds,	220 90
Pork, 32,621 pounds,	1,957,26
Pigs sold, 191,	447 50
Pigs, roasting, 5,	10 00
Chickens, 1,045 pounds,	201 20
Heads and plucks, 19,	19 00
Eggs, 689½ dozen,	178 21
Milk (grass-fed), 10,208 gallons,	1,693 28
Cider, 45 barrels,	135 00
Calf-skins, 19,	13 75
Young calves sold, 17,	43 50
Wood, 10 cords,	32 68
Ensilage, 125 tons,	312 50
Celery, 1,300 heads,	39 00
Posts, 50,	12 50
Lumber, 5,600,	84 00
Husks (corn), 1 ton,	12 00
Ice, 500 tons,	500 00
Rye, 75 bushels,	75 00
Grapes, 2½ bushels,	5 00
Citron, 550 pounds,	11 00
Hogs (fat), 10,	120 82
	<hr/>
	\$15,378 00

## FINANCES.

The hospital depends for its income upon the products of the farm and the amounts charged for the board of patients. The hospital receives for the support of all State and town or city patients \$3.25 each per week. The average weekly cost per patient for the year past was \$3.32. The term "support," as interpreted by law, includes board, clothing, medical attendance, damages to the property of the hospital, etc. No extra charge is allowed in the bills except as provided in chapter 87, section 45, of the Public Statutes: "No pauper shall be discharged from the State hospital



without suitable clothing, and the trustees may furnish the same at their discretion, together with such sum of money, not exceeding twenty dollars, as they may deem necessary. Such money and the cost of such clothing, the expense of pursuing such lunatics as escape therefrom, and of burial of such as die in the hospital, shall be reimbursed to the trustees by the places of legal settlement of city and town paupers, and by the Commonwealth in the case of State paupers."

The daily average of State and town patients for the past year was 388.49. The charge for board of private patients is not uniform, but varies according to the arrangements made with the parties paying such board. The average price charged for all who were in the hospital Sept. 30, 1891, was \$4.86 per week. The clothing and damages are charged extra. The average weekly pay per capita charged by the hospital for all its patients, State, town and private, in the course of the year, was \$3.54.

The amount of cash assets on hand is \$49,961.42; the liabilities are \$5,789.77. The purchased supplies on hand, including provisions, clothing and fuel, are estimated to cost \$15,408.94, making the working surplus of the hospital \$59,580.59. The amount expended from the regular receipts of the hospital for extraordinary repairs and improvements was \$3,498.79. In addition to this, \$10,822.21 has been expended from the special appropriation of \$30,000 which was made by the last Legislature for enlarging the hospital, and for necessary repairs and improvements, making a total of \$14,321.00 expended within the year. The total amount of appropriations which have been made by the State and expended for the construction, repairs and improvements of the hospital, from the time of the passage of the act authorizing its erection, according to the list furnished by the State treasurer, is \$386,372.21.

The future need of hospital accommodations for the insane in western Massachusetts is a question which can be easily understood when we give the subject consideration. The population of this part of the State is gradually increasing. If the proportion of persons who become insane remains the same,—and it probably will not vary materially,—the

number of patients who will require care and treatment will also increase. Judging of the future by the past, it will increase. The number of yearly admissions is now about double what it was sixteen years ago. In addition to this, a considerable part of the patients admitted each year pass into the chronic or incurable state, requiring care and custody. There is a gradual accumulation of this class; a portion of these remain in the hospital, a portion are cared for in the almshouses, some are placed in families. It is practically certain that the number of acute and chronic insane will increase from year to year. If this hospital is to provide for such an increase, the time is not far distant when increased accommodations will be required. The improvement and enlargement of the building in the present year may be considered as preparatory to such an increase. A new and commodious boiler and engine house, and a new dormitory for employees, are in process of erection. The old boiler and engine house is being changed into a laundry, an improvement which is much needed. The enlargement of the chapel is also contemplated. The changes will make the administrative part of the hospital sufficiently large and effective in case of an increase in the accommodations for patients. Without these changes, any considerable increase in the number of patients would seriously inconvenience the working part of the hospital. The present necessity of the hospital is an improvement in the accommodations for patients already existing. It is specially desirable that an appropriation for this purpose should be made in the coming session of the Legislature. In connection with the improvements, such increase can be made as the means provided will warrant.

#### ACKNOWLEDGMENTS.

Contributions of magazines and papers were made by Mr. S. E. Bridgman, Miss Florence Austin, and others too numerous to mention. Two copies of the "N. E. Staaten Zeitung" and one of the "Christian Register" have been received weekly during the year. Dr. T. W. Meekins gave a series of stereopticon exhibitions during the winter. Mr. Frank's orchestra favored the hospital with music at the weekly dances in the winter season.

## CONCLUSION.

The official staff remains the same as at the last annual report, also the subordinate officers, except the laundress, Mrs. Kate Bartlett having been appointed to that position. The uniform and continued aid of those who are associated with me in the hospital work merits my sincere appreciation and thanks, as well as the useful and unvarying support of your Board.

EDWARD B. NIMS,  
*Superintendent.*

## APPENDIX.

\* 2. — *Monthly Admissions, Discharges and Averages.*

MONTHS.	ADMISSIONS.			DISCHARGES.			DEATHS.			DAILY AVERAGE OF PATIENTS IN THE HOUR.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
<b>1890.</b>												
October, . . . . .	14	5	19	4	3	7	1	1	2	246.58	252.935	499.52
November, . . . . .	4	6	10	27	25	52	1	2	3	239.5	236.8	476.3
December, . . . . .	4	1	5	7	11	18	1	1	2	225.74	226.52	452.26
<b>1891.</b>												
January, . . . . .	8	3	11	5	2	7	2	1	3	223.225	220.838	444.06
February, . . . . .	7	5	12	2	3	5	2	1	3	224.14	221.5	445.64
March, . . . . .	4	4	8	2	2	4	2	—	2	226.55	222.87	449.42
April, . . . . .	5	4	9	6	3	9	1	—	1	227.07	223.73	450.8
May, . . . . .	5	5	10	4	5	9	—	1	1	226.709	224.74	451.45
June, . . . . .	7	10	17	8	3	11	1	1	2	225.67	227.1	452.77
July, . . . . .	9	11	20	5	8	13	3	2	5	226.03	228.03	454.06
August, . . . . .	4	4	8	5	3	8	1	—	1	228.74	231.42	455.16
September, . . . . .	11	1	2	6	3	9	4	2	6	221.366	230.266	451.63
Total of cases, . . . . .	82	59	141	81	71	152	19	12	31	—	—	—
Total of persons, . . . . .	81	57	138	81	69	150	19	12	31	—	—	—
Daily average, . . . . .	—	—	—	—	—	—	—	—	—	228.05	228.95	457.

• For Table No. 1, see beginning of superintendent's report.

*3. — Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	72	46	118	—	—	—
Second, . . . . .	8	10	18	3	—	3
Third, . . . . .	1	3	4	—	2	2
Fifth, . . . . .	1	—	1	3	—	3
Total of cases, . . .	82	59	141	6	2	8
Total of persons, . .	81	57	138	4	1	5

*4. — Relations to Hospitals of Persons admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Totals.
Never before in any hospital for insane, .	66	44	110
Former inmates of this hospital only, .	9	10	19
Former inmates of other hospitals only, .	5	2	7
Former inmates of this and other hospitals,	1	1	2
Total of persons, . . . . .	81	57	138

5. — *Parentage of Persons admitted.*

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTALS.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	—	—	2	2	2	2
New Hampshire, . . . . .	1	1	—	—	1	1
Vermont, . . . . .	3	1	1	3	4	4
Massachusetts, . . . . .	28	26	13	13	41	39
Connecticut, . . . . .	2	5	2	2	4	7
New York, . . . . .	3	3	6	4	9	7
Maryland, . . . . .	—	1	—	—	—	1
Virginia, . . . . .	1	—	—	—	1	—
Canada, . . . . .	7	7	1	1	8	8
Nova Scotia, . . . . .	—	1	—	—	—	1
England, . . . . .	7	6	3	2	10	8
Ireland, . . . . .	23	23	24	25	47	48
Scotland, . . . . .	1	1	1	1	2	2
Germany, . . . . .	1	1	3	3	4	4
Armenia, . . . . .	1	1	—	—	1	1
Sweden, . . . . .	1	1	—	—	1	1
Unknown, . . . . .	2	3	1	1	3	4
Totals, . . . . .	81	81	57	57	138	138

6. — *Residence of Persons admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	11	7	18
Hampden County, . . . . .	29	30	59
Berkshire County, . . . . .	27	16	43
Franklin County, . . . . .	11	4	15
Worcester County, . . . . .	2	—	2
Bristol County, . . . . .	1	—	1
Totals, . . . . .	81	57	138
Cities or towns,* . . . . .	40	28	68
Country districts, . . . . .	41	29	70
Totals, . . . . .	81	57	138

\* Containing not less than 10,000 inhabitants.

7. — *Civil Condition of Persons admitted.*

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			UNKNOWN.			TOTAL.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
First, . . .	43	17	60	26	21	47	3	8	11	-	-	-	72	46	118
Second, . . .	4	1	5	3	5	8	-	2	2	-	-	-	7	8	15
Third, . . .	1	1	2	-	2	2	-	-	-	-	-	-	1	3	4
Fifth, . . .	-	-	-	1	-	1	-	-	-	-	-	-	1	-	1
Totals, . . .	48	19	67	30	28	58	3	10	13	-	-	-	81	57	138

8. — *Occupations of Persons admitted.*

MALES.			
Laborers, . . . . .	23	Cigar manufacturer, . . . . .	1
Carpenters, . . . . .	4	Coppersmith, . . . . .	1
Mechanics, . . . . .	2	Fireman, . . . . .	1
Machinist, . . . . .	1	Bartender, . . . . .	1
Painters, . . . . .	2	Joiner, . . . . .	1
Tanner, . . . . .	1	Liveryman, . . . . .	1
Farmers, . . . . .	10	Cook, . . . . .	1
Brick maker, . . . . .	1	U. S. Cavalry, . . . . .	1
Mill operatives, . . . . .	5	Photographer, . . . . .	1
Brakeman, . . . . .	1	Book-keepers, . . . . .	2
Cutler, . . . . .	1	Shoemakers, . . . . .	2
Boiler maker, . . . . .	1	Policeman, . . . . .	1
Barber, . . . . .	1	Theatrical manager, . . . . .	1
Rake maker, . . . . .	1	Mason, . . . . .	1
Weaver, . . . . .	1	Hotel keeper, . . . . .	1
Silk dyer, . . . . .	1	None, . . . . .	4
Teacher, . . . . .	1		
Tailor, . . . . .	1		
Clerks, . . . . .	2	Total, . . . . .	81

FEMALES.				
Housekeepers, . . . .	5	Music teacher,. . . .	1	
Domestics, . . . . .	10	Mill operatives, . . . .	2	
Nurse, . . . . .	1	Cook, . . . . .	1	
Needlemaker, . . . .	1	Thief, . . . . .	1	

WIFE OF			
Barber, . . . . .	1	Insurance agent, . . . . .	1
Painter, . . . . .	2	Railroad employee, . . . . .	1
Farmer, . . . . .	3	Janitor, . . . . .	1
Laborer, . . . . .	4	Railroad conductor, . . . . .	1
Merchant, . . . . .	2	Blacksmith, . . . . .	1
Plumber, . . . . .	1	Truckman, . . . . .	1
Florist, . . . . .	1	None, . . . . .	8
Mill operative, . . . . .	4		
Carpenter, . . . . .	3	Total, . . . . .	57

## 9. — Probable Causes of Disease in Persons admitted.

CAUSES.	PATIENTS ADMITTED.						INSANE.						PREVIOUS AT-TACKS.						HEREDITARY PREDISPOSITION.						HABITUAL DRUNKARDS.								
	INSANE.			HABITUAL DRUNKARDS.			VOLUNTARY PATIENTS.			PREVIOUS AT-TACKS.			HEREDITARY PREDISPOSITION.			PREVIOUS AT-TACKS.			HEREDITARY PREDISPOSITION.			PREVIOUS AT-TACKS.			HEREDITARY PREDISPOSITION.			PREVIOUS AT-TACKS.			HEREDITARY PREDISPOSITION.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
1.— PHYSICAL.—																																	
Congenital, . . . . .	2	1	3																														
Ill health, . . . . .	6	10	16																														
Ill health and overwork, . . . . .	4	1	5																														
Epilepsy, . . . . .	4	4	8																														
Heredity, . . . . .	14	3	17																														
Overheating, . . . . .	1	1	2																														
Sunstroke, . . . . .	1	1	2																														
Apoplexy, . . . . .	1	1	2																														
Masturbation, . . . . .	6	1	7																														
Overwork, . . . . .	1	1	2																														
Injury, . . . . .	1	1	2																														
Menopause, . . . . .	1	1	2																														
Childbirth, . . . . .	1	1	2																														
Optic habit, . . . . .	17	4	21																														
Intemperance, . . . . .	1	1	2																														
Disipation, . . . . .	1	1	2																														
Dysomania, . . . . .	1	1	2																														
Old age, . . . . .	6	1	7																														
2.— MENTAL.—																																	
Domestic trouble, . . . . .	—	2	2																														
Grief, . . . . .	—	2	2																														
Fright, . . . . .	—	1	1																														
Worry, . . . . .	1	1	2																														
Not insane, . . . . .	—	—	—																														
Unknown, . . . . .	15	24	39																														
Totals, . . . . .	77	57	134	8	—	8	1	—	1	2	2	4	27	7	34	1	—	1	1	—	—	1	1	—	1	—	1	—	—	—	1		



10. — *Record of Cases admitted within the Year.*

PATIENTS.	INSANE.			HABITUAL DRUNKARDS.			VOLUNTARY PATIENTS.			AGGREGATE.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
Admitted, . . . . .	78	59	137	8	—	8	1	—	1	82	59	141
Discharged recovered, . . . . .	16	6	22	1	—	1	—	—	—	17	6	23
much improved, . . . . .	5	2	7	—	—	—	—	—	—	5	2	7
improved, . . . . .	7	2	9	1	—	1	—	—	—	8	2	10
not improved, . . . . .	4	7	11	1	—	1	—	—	—	5	7	12
not insane, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Died, . . . . .	6	4	10	—	—	—	—	—	—	6	4	10
Remaining Sept 30, 1891, . . . . .	43	38	81	—	—	—	1	—	1	44	38	82
Number likely to recover or improve, . . . . .	16	15	31	—	—	—	1	—	1	17	15	32

*11. — Ages of Insane at First Attack, Admission and Death.*

AGES.	PERSONS FIRST ADMITTED TO ANY HOSPITAL.						PERSONS DIED.					
	At First Attack.			When admitted.			At First Attack.			At Time of Death.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . .	-	-	-	-	-	-	-	-	-	-	-	-
15 years and less, .	3	1	4	-	-	-	-	-	-	-	-	-
From 15 to 20 years,	2	2	4	4	2	6	2	-	2	-	-	-
20 to 25 years,	7	2	9	9	2	11	-	1	1	2	1	3
25 to 30 years,	3	5	8	6	3	9	1	-	1	-	-	-
30 to 35 years,	5	8	13	11	6	17	3	2	5	2	-	2
35 to 40 years,	3	2	5	6	4	10	-	-	-	-	1	1
40 to 50 years,	8	6	14	11	13	24	3	5	8	5	2	7
50 to 60 years,	4	4	8	4	5	9	1	-	1	4	3	7
60 to 70 years,	5	5	10	6	5	11	1	1	2	3	2	5
70 to 80 years,	5	2	7	5	4	9	-	1	1	1	2	3
Over 80 years, . .	-	-	-	3	-	3	1	-	1	2	1	3
Unknown, . . .	20	7	27	-	-	-	7	2	9	-	-	-
Not insane, . . .	1	-	1	1	-	1	-	-	-	-	-	-
Total of persons,	68	44	110	66	44	110	19	12	31	19	12	31
Mean ages, . . .	39.39	40.16	29.95	41.85	43.77	42.37	40.17	44.70	42.23	52.63	56.41	54.10

*12. — Reported Duration of Disease before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO ANY HOSPITAL.			ALL OTHER AD- MISSIONS.			TOTALS.		
	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.	Ma.	Fe.	Tot.
Congenital, . . .	—	—	—	—	—	—	—	—	—
Under 1 month, . . .	11	8	19	2	—	2	13	8	21
From 1 to 3 months, . . .	8	9	17	1	2	3	9	11	20
3 to 6 months, . . .	4	7	11	1	1	2	5	8	13
6 to 12 months, . . .	5	2	7	3	—	3	8	2	10
1 to 2 years, . . .	3	3	6	2	1	3	5	4	9
2 to 5 years, . . .	6	5	11	1	4	5	7	9	16
5 to 10 years, . . .	3	2	5	2	2	4	5	4	9
10 to 12 years, . . .	4	1	5	—	2	2	4	3	7
Over 20 years, . . .	3	2	5	1	—	1	4	2	6
Unknown, . . .	18	5	23	3	3	6	21	8	29
Not insane, . . .	1	—	1	—	—	—	1	—	1
Total of cases, . . .	66	44	110	16	15	31	82	59	141
Total of persons, . . .	66	44	110	15	13	28	81	57	138
Average in years, . . .	3½	2½	3½	3½	3½	3½	3½	2½	3½

13. — Form of Mental Disease in Cases admitted or discharged, with Condition on Discharge.

FORM OF DISEASE.	CASES ADMITTED.			CASES DISCHARGED.												AGGREGATE.		
				RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane —																		
Epilepsy.	7	4	11	—	—	—	—	—	—	—	—	—	—	—	—	2	3	5
General paralysis.	6	6	12	—	—	—	—	—	—	—	—	—	—	—	—	3	4	7
Mania, acute.	7	14	21	2	9	11	1	1	2	1	2	3	2	1	3	4	13	20
chronic.	7	7	14	—	—	—	2	1	3	9	8	17	6	4	10	9	17	41
recurrent.	1	1	2	—	—	—	—	—	—	1	1	2	—	—	—	2	1	3
senile.	1	2	3	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2
puerperal.	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2
$\& \text{poeta}$ .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
toxic.	11	—	11	7	—	7	—	—	—	1	1	2	1	1	2	3	2	11
Melancholia.	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
acute.	15	11	26	7	4	11	2	1	3	4	2	6	—	—	—	14	10	24
chronic.	5	10	15	3	1	4	1	3	4	1	3	4	—	—	—	6	10	16
senile.	1	2	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
recurrent.	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
puerperal.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dementia.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
acute.	—	3	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
primary.	1	1	2	1	1	2	1	1	2	4	2	6	1	1	2	3	2	5
secondary.	3	3	6	—	—	—	—	—	—	—	—	—	—	—	—	2	4	6
senile.	4	4	8	—	—	—	—	—	—	2	2	4	1	1	2	4	1	5
organic.	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Delusional.	2	3	5	—	—	—	—	—	—	2	2	4	—	—	—	1	6	7
Congenital mental deficiency.	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Optum habit.	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	2	2	4
Alcoholism.	1	1	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Dipsomania.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
B. — Habitual drunkards.	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
C. — Voluntary patients.	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total of cases.	82	59	141	29	16	45	7	7	14	27	26	53	18	22	40	19	12	31
Total of persons.	81	57	138	29	15	44	7	6	13	27	26	53	18	22	40	19	12	31

## 14. — Discharges, classified by Admission and Result.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.			NOT INSANE.			TOTALS.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First, . . .	26	15	41	5	3	8	23	16	39	17	15	32	18	11	29	—	—	—	89	60	149
Second, . . .	2	1	3	2	4	6	4	8	12	—	5	5	1	1	2	—	—	—	9	19	28
Third, . . .	—	—	—	—	—	—	—	—	—	1	2	3	—	—	—	—	—	—	1	2	3
Fourth, . . .	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	1	1	2
Ninth, . . .	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	1
Total of cases, .	29	16	45	7	7	14	27	26	53	18	22	40	19	12	31	—	—	—	100	83	183
Total of persons, .	29	15	43	7	6	13	27	26	53	18	22	40	19	12	31	—	—	—	100	81	181

## 15. — Causes of Death.

CAUSES.	INFANTS.			HABITUAL DRUNKARDS.			VOLUNTARY CASES.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Nervous system :—												
Exhaustion of chronic brain disease, . .	2	4	6	—	—	—	—	—	—	2	4	6
General paralysis, . . . . .	3	—	3	—	—	—	—	—	—	3	—	3
Apoplexy, . . . . .	2	—	2	—	—	—	—	—	—	2	—	2
Respiratory system :—												
Phthisis, . . . . .	4	3	7	—	—	—	—	—	—	4	3	7
Pneumonia, . . . . .	—	1	1	—	—	—	—	—	—	—	1	1
Circulatory system :—												
Heart disease, . . . . .	1	1	2	—	—	—	—	—	—	1	1	2
General :—												
Chronic nephritis, . . . . .	2	—	2	—	—	—	—	—	—	2	—	2
Cancer, . . . . .	—	1	1	—	—	—	—	—	—	—	1	1
Old age, . . . . .	3	1	4	—	—	—	—	—	—	3	1	4
Suicide by drowning, . . . . .	1	—	1	—	—	—	—	—	—	1	—	1
Suicide by hanging, . . . . .	1	—	1	—	—	—	—	—	—	1	—	1
Accidental strangulation, . . . . .	—	1	1	—	—	—	—	—	—	—	1	1
Totals, . . . . .	19	12	31	—	—	—	—	—	—	19	12	31

14. — Discharges, classified by Admission and Result.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.			NOT INSANE.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . .	26	15	41	5	3	8	23	16	39	17	15	32	18	11	29	—	—	—	89	60	149
Second, . . .	2	1	3	2	4	6	4	8	12	—	5	5	1	1	2	—	—	—	9	19	28
Third, . . .	—	—	—	—	—	—	—	—	—	1	2	3	—	—	—	—	—	—	1	2	3
Fourth, . . .	1	—	1	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	1	1	2
Ninth, . . .	—	—	—	—	—	—	—	1	1	—	—	—	—	—	—	—	—	—	—	1	1
Total of cases, . . .	29	16	45	7	7	14	27	26	53	18	22	40	19	12	31	—	—	—	100	83	183
Total of persons, . . .	29	15	43	7	6	13	27	26	53	18	22	40	19	12	31	—	—	—	100	81	181

## 15.—Causes of Death.

CAUSES.	INSANE.			HABITUAL DRUNKARDS.			VOLUNTARY CASES.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Nervous system :—												
Exhaustion of chronic brain disease, . .	2	4	6	—	—	—	—	—	—	2	4	6
General paralysis, . . . . .	3	—	3	—	—	—	—	—	—	3	—	3
Apoplexy, . . . . .	2	—	2	—	—	—	—	—	—	2	—	2
Respiratory system :—												
Phthisis, . . . . .	4	3	7	—	—	—	—	—	—	4	3	7
Pneumonia, . . . . .	—	1	1	—	—	—	—	—	—	—	1	1
Circulatory system :—												
Heart disease, . . . . .	1	1	2	—	—	—	—	—	—	1	1	2
General :—												
Chronic nephritis, . . . . .	2	—	2	—	—	—	—	—	—	2	—	2
Cancer, . . . . .	—	1	1	—	—	—	—	—	—	—	1	1
Old age, . . . . .	3	1	4	—	—	—	—	—	—	3	1	4
Suicide by drowning, . . . . .	1	—	1	—	—	—	—	—	—	1	—	1
Suicide by hanging, . . . . .	1	—	1	—	—	—	—	—	—	1	—	1
Accidental strangulation, . . . . .	—	1	1	—	—	—	—	—	—	—	1	1
Totals, . . . . .	19	12	31	—	—	—	—	—	—	19	12	31



## 16. — Recoveries, classified by Duration of Disease and of Treatment.

PERIOD.	LAST ATTACK.				ALL ATTACKS.			
	DURATION BEFORE ADMISSION.		HOSPITAL RESIDENCE.		WHOLE DURATION FROM THE ATTACK.		WHOLE KNOWN PERIOD OF MENTAL DISEASE.	
	Males.	Females.	Males.	Females.	Males.	Females.	Males.	Females.
A. — Insane —								
Congenital,	—	—	—	—	—	—	—	—
Under 1 month,	8	4	2	1	—	—	2	1
From 1 to 3 months,	3	5	12	4	—	—	11	4
3 to 6 months,	2	2	6	5	5	4	7	5
6 to 12 months,	3	2	5	4	9	5	5	4
1 to 2 years,	1	2	3	1	4	4	3	1
2 to 5 years,	3	—	—	1	8	1	—	1
5 to 10 years,	2	—	—	—	2	—	2	—
10 to 20 years,	1	—	—	—	1	—	—	—
Over 20 years,	—	—	—	—	—	—	—	—
Unknown,	5	1	—	—	5	1	—	—
Totals,	28	16	28	16	28	16	28	16
Average of known cases (in months),	23 $\frac{7}{12}$	4 $\frac{1}{2}$	16 $\frac{5}{6}$	7 $\frac{2}{3}$	22 $\frac{1}{2}$	11 $\frac{1}{2}$	44 $\frac{1}{2}$	7 $\frac{2}{3}$
B. — Habitual drunkards —								
From 3 to 6 months,	—	—	—	—	—	—	—	—
From 6 to 12 months,	—	—	—	—	—	—	—	—
From 12 to 20 years,	1	—	1	—	—	—	1	—
Totals,	1	—	1	—	—	—	1	—
Average of known cases (in months),	—	—	—	—	—	—	—	—

\* Whether in this or other institutions.

## 17. — Deaths, classified by Duration of Disease and Treatment.

PERIOD.	LAST ATTACK.						ALL ATTACKS.					
	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.			WHOLE KNOWN PERIOD OF MENTAL DISEASE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane —												
Congenital,	.	.	.	.	.	.	.	.	.	.	.	.
Under 1 month,	1	2	3	2	1	3	1	1	2	2	1	3
From 1 to 3 months,	3	1	4	3	1	4	3	1	4	3	1	4
3 to 6 months,	1	1	2	3	1	4	3	1	4	3	1	4
6 to 12 months,	1	2	3	1	2	3	1	1	2	1	1	2
1 to 2 years,	.	.	.	2	2	4	1	3	4	2	2	4
2 to 5 years,	4	1	5	4	2	6	6	3	9	4	2	6
5 to 10 years,	1	1	2	1	5	6	1	2	3	1	5	6
10 to 20 years,	1	2	3	1	1	2	1	2	3	1	1	2
Over 20 years,	1	1	2	2	1	3	1	1	2	2	1	3
Unknown,	7	2	9	7	2	9	7	2	9	7	2	9
Totals,	19	12	31	19	12	31	19	12	31	19	12	31
Average of known cases (in months),	33.1 <sub>12</sub>	65.7 <sub>10</sub>	52.5 <sub>11</sub>	64.8 <sub>19</sub>	42.1 <sub>11</sub>	55.8 <sub>15</sub>	115.7 <sub>10</sub>	96.1 <sub>18</sub>	104.1 <sub>14</sub>	64.8 <sub>19</sub>	42.1 <sub>11</sub>	56.5 <sub>15</sub>

18. — *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of Each Year's Admissions remaining Sept. 30, 1891.*

NEW CASES (FIRST ADMISSION).																			
YEARS ENDING SEPT. 30.	ADMITTED.			DISCHARGED AND DIED IN 1890-91.															
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.			
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.				
1858,— 2 months,	99	129	228	—	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—
1858-59,	42	46	88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1859-60,	66	91	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1860-61,	58	46	104	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1861-62,	51	43	94	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1862-63,	56	57	113	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1863-64,	35	80	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1864-65,	54	55	109	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1865-66,	66	52	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1866-67,	42	69	111	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1867-68,	54	71	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1868-69,	72	64	136	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1869-70,	80	103	183	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1870-71,	93	88	181	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1871-72,	83	85	168	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1872-73,	89	69	158	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1873-74,	86	69	155	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—

[illegible]

## 18. — Annual Admissions, etc. — Concluded.

YEARS ENDING SEPT. 30.	READMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS SEPT. 30, 1891.		
	ADMITTED.						DISCHARGED AND DIED IN 1890-91.								
	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.					
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,—2 mos.,	—	—	—	—	—	—	—	—	—	—	—	—	6	1	7
1858-59,	4	1	5	—	—	—	—	—	—	—	—	—	1	—	1
1859-60,	7	8	10	—	—	—	—	—	—	—	—	—	1	1	2
1860-61,	13	7	20	—	—	—	—	—	—	—	—	—	—	1	1
1861-62,	13	6	18	—	—	—	—	—	—	—	—	—	—	1	2
1862-63,	14	11	25	—	—	—	—	—	—	—	—	—	—	1	1
1863-64,	12	15	27	—	—	—	—	—	—	—	—	—	—	1	1
1864-65,	16	9	25	—	—	—	—	—	—	—	—	—	2	1	3
1865-66,	9	9	18	—	—	—	—	—	—	—	—	—	4	1	5
1866-67,	19	8	27	—	—	—	—	—	—	—	—	—	1	—	1
1867-68,	14	13	27	—	—	—	—	—	—	—	—	—	1	1	2
1868-69,	12	21	33	—	—	—	—	—	—	—	—	—	3	2	5
1869-70,	10	9	19	—	—	—	—	—	—	—	—	—	1	2	3
1870-71,	16	14	30	—	—	—	—	—	—	—	—	—	2	5	7
1871-72,	18	13	31	—	—	—	—	—	—	—	—	—	2	7	9
1872-73,	13	10	23	—	—	—	—	—	—	—	—	—	2	5	7
1873-74,	19	19	38	—	—	—	—	—	—	—	—	—	4	6	10
1874-75,	14	16	30	—	—	—	—	—	—	—	—	—	1	3	4
1875-76,	13	14	27	—	—	—	—	—	—	—	—	—	9	4	13
													3	—	3

[illegible]

19. — *Relapsed Cases admitted in Each Year and discharged in 1890-91.*

YEARS ENDING SEPT. 30.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.												REMAINING SEPT. 30, 1891.										
	ADMITTED.			DISCHARGED AND DIED IN 1890-91.																			
	Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.							
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.					
1858,— 2 months,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1858-59,	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1859-60,	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1860-61,	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1861-62,	6	2	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1862-63,	5	8	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1863-64,	6	10	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1864-65,	8	4	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1865-66,	4	3	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1866-67,	11	6	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1867-68,	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1868-69,	6	9	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1869-70,	5	4	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1870-71,	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1871-72,	9	8	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1872-73,	6	5	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1873-74,	7	8	15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1874-75,	2	5	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
1875-76,	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

[illegible]



*20. — Showing the Results of First Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Number of persons on first admission, . . . . .	—	—	—	2,096	2,043	4,139
Discharged recovered, . . . . .	484	414	898	—	—	—
improved, . . . . .	563	631	1,194	—	—	—
unimproved, . . . . .	404	400	804	—	—	—
not insane, . . . . .	15	13	28	—	—	—
Died, . . . . .	467	422	889	—	—	—
Remaining in the hospital Sept 30, 1891, . . . . .	163	163	326	2,096	2,043	4,139

*Showing the Results of Readmissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Readmitted, . . . . .	—	—	—	459	444	903
Discharged recovered, . . . . .	115	121	236	—	—	—
improved, . . . . .	135	133	268	—	—	—
unimproved, . . . . .	74	78	152	—	—	—
not insane, . . . . .	2	2	4	—	—	—
Died, . . . . .	71	45	116	—	—	—
Remaining in the hospital Sept 30, 1891, . . . . .	62	65	127	459	444	903

*Showing the Results of Second Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Second admissions, . . . . .	—	—	—	326	306	632
Discharged recovered, . . . . .	82	66	148	—	—	—
improved, . . . . .	84	93	177	—	—	—
unimproved, . . . . .	57	57	114	—	—	—
not insane, . . . . .	1	2	3	—	—	—
Died, . . . . .	57	38	95	—	—	—
Remaining in the hospital Sept 30, 1891, . . . . .	45	50	95	326	306	632

*Showing the Results of Third Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Third admissions, . . . . .	—	—	—	81	65	146
Discharged recovered, . . . . .	17	24	41	—	—	—
improved, . . . . .	28	18	46	—	—	—
unimproved, . . . . .	13	11	24	—	—	—
not insane, . . . . .	1	—	1	—	—	—
Died, . . . . .	11	4	15	—	—	—
Remaining in the hospital Sept 30, 1891, . . . . .	11	8	19	81	65	146

*Showing the Results of Fourth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourth admissions, . . .	—	—	—	22	31	53
Discharged recovered, . . .	8	8	16	—	—	—
improved, . . .	7	12	19	—	—	—
unimproved, . . .	2	4	6	—	—	—
Died, . . .	2	2	4	—	—	—
Remaining in the hospital Sept. 30, 1891, . . .	3	5	8	22	31	53

*Showing the Results of Fifth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifth admissions, . . .	—	—	—	11	14	25
Discharged recovered, . . .	4	7	11	—	—	—
improved, . . .	4	4	8	—	—	—
unimproved, . . .	—	2	2	—	—	—
Died, . . .	1	—	1	—	—	—
Remaining in the hospital Sept. 30, 1891, . . .	2	1	3	11	14	25

*Showing the Results of Sixth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Sixth admissions, . . .	—	—	—	7	10	17
Discharged recovered, . . .	2	5	7	—	—	—
improved, . . .	3	3	6	—	—	—
unimproved, . . .	2	2	4	7	10	17

*Showing the Results of Seventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Seventh admissions, . . .	—	—	—	3	5	8
Discharged recovered, . . .	1	3	4	—	—	—
improved, . . .	2	—	2	—	—	—
unimproved, . . .	—	1	1	—	—	—
Died, . . .	—	1	1	3	5	8

*Showing the Results of Eighth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eighth admissions, . . .	—	—	—	2	3	5
Discharged recovered, . . .	1	2	3	—	—	—
improved, . . .	1	—	1	—	—	—
unimproved, . . .	—	1	1	2	3	5

*Showing the Results of Ninth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Ninth admissions, . . .	-	-	-	1	2	3
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	1	2	-	-	-
Remaining in the hospital Sept. 30, 1891, . . .	-	-	-	1	2	3

*Showing the Results of Tenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Tenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Eleventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eleventh admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Twelfth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Twelfth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Thirteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Thirteenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Fourteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourteenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Fifteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteenth admissions, . .	-	-	-	1	1	2
Discharged improved, . .	-	1	1	-	-	-
Remaining in the hospital Sept. 30, 1891, . . . .	1	-	1	1	1	2

*Showing the Results of Sixteenth Admissions.*

Sixteenth admissions, . .	-	-	-	-	1	1
Discharged improved, . .	-	1	1	-	1	1

*Showing the Results of Seventeenth Admissions.*

Seventeenth admissions, .	-	-	-	-	1	1
Remaining in the hospital Sept. 30, 1891, . . . .	-	1	1	-	1	1

21. — *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	54.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84
1885-86, . . . .	140.23	270.52	63.61	474.36
1886-87, . . . .	122.78	289.38	66.00	478.16
1887-88, . . . .	112.17	294.01	64.01	470.19
1888-89, . . . .	104.67	303.01	61.31	468.99
1889-90, . . . .	96.86	311.17	62.07	470.10
<i>Daily Average.</i>				
1890-91, . . . .	90.71	297.78	68.51	457.00

22. — *Monthly Consumption of Gas.*

MONTHS.	Cubic Feet.	Daily Average.
<b>1890.</b>		
October, . . . . .	41,600	1,341.94
November, . . . . .	60,700	2,023.33
December, . . . . .	74,300	2,396.77
<b>1891.</b>		
January, . . . . .	73,600	2,374.19
February, . . . . .	57,200	2,042.85
March, . . . . .	51,900	1,674.19
April, . . . . .	40,100	1,336.66
May, . . . . .	28,100	906.45
June, . . . . .	21,600	720.00
July, . . . . .	20,300	654.84
August, . . . . .	27,200	877.42
September, . . . . .	37,800	1,260.00
Totals, . . . . .	534,400	17,608.64

## 23. — Supplies for the Several Departments for the Year 1890-91.

	Sheets.	Pillow Cases.	Bed Spreads.	Blankets.	Bed Ticks.	Pillow Ticks.	Towels.	Curtains.	Wash Bowls.	Kewers.	Chambers.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Banquet.	Trumblers.	Mugs.	Bowls.	Pitchers.	Knives.	Forks.
<i>Men's Department.</i>																								
Upper 1st Hall.	18	16	—	1	8	—	12	4	1	2	—	—	—	2	—	15	6	6	32	—	6	2	3	—
2d Hall.	36	24	6	6	3	—	6	6	—	—	12	1	—	4	3	—	—	18	12	1	6	6	3	—
3d and 4th Halls.	30	18	2	6	3	—	12	—	—	—	12	—	—	3	6	6	24	36	—	18	6	6	3	—
Middle 1st Hall.	30	30	—	—	4	—	10	3	—	1	4	—	—	3	4	12	18	18	—	—	6	1	4	—
2d Hall.	12	24	6	6	—	—	6	—	—	1	22	—	—	4	6	—	12	—	—	—	6	6	4	—
3d and 4th Halls.	36	24	16	—	—	—	—	—	—	1	12	1	—	6	—	6	—	36	—	—	16	4	12	—
Lower 1st Hall.	26	24	—	—	2	6	—	—	1	1	2	2	—	3	16	15	12	18	—	—	2	4	1	—
2d Hall.	24	36	—	12	1	6	—	8	1	1	18	2	1	1	—	—	6	—	—	—	1	5	—	—
3d and 4th Halls.	—	—	—	—	—	—	—	—	—	—	8	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>Women's Department.</i>																								
Upper 1st Hall.	16	4	8	4	—	—	42	6	1	2	6	—	—	2	—	36	18	18	18	—	6	2	—	—
2d Hall.	40	44	12	—	—	—	48	4	—	2	12	1	—	4	—	12	24	36	18	—	—	—	—	—
3d Hall.	12	12	12	—	—	—	27	6	—	—	12	—	—	21	2	—	—	—	—	—	—	—	—	—
4th Hall.	24	24	2	5	1	—	18	—	—	1	8	—	—	8	5	24	18	6	—	18	6	3	—	—
Middle 1st Hall.	24	12	—	—	—	—	36	—	1	1	12	—	—	26	9	—	—	24	—	6	19	3	—	—
2d Hall.	12	12	—	—	—	—	24	—	4	2	7	—	—	32	7	—	18	24	—	—	—	—	—	—
3d Hall.	36	24	—	7	2	6	12	—	—	—	12	—	—	—	—	—	—	—	12	18	—	—	—	—
4th Hall.	12	18	—	—	4	6	36	—	—	—	9	—	—	9	—	—	6	6	6	—	—	—	—	—
Lower 1st Hall.	12	12	6	12	—	—	12	6	—	18	—	—	—	19	9	—	18	18	6	—	6	1	—	—
2d Hall.	60	48	12	—	8	4	36	6	—	—	12	—	—	19	4	—	—	—	—	—	—	—	—	—
3d Hall.	52	24	10	1	2	—	64	10	—	1	6	—	—	10	4	6	—	—	6	—	—	—	—	—
4th Hall.	—	—	—	—	—	—	—	—	—	—	—	—	—	2	—	48	64	24	6	—	15	6	32	21
Kitchen.	—	82	8	1	1	10	26	1	2	2	4	—	—	1	2	168	—	—	—	—	—	—	—	—
Rear.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Centre.	8	12	—	—	—	—	25	—	—	—	—	—	—	—	—	18	—	—	—	—	—	—	—	—
Aggregates.	580	444	86	73	37	46	454	65	10	32	185	6	10	188	79	366	252	336	190	61	100	55	55	42

## 23. — Supplies for the Several Departments for the Year 1890-91 — Concluded.

	Spoons.	Table Spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Rollers.	Wash Basins.	Brooms.	Soap, Pounds.	Whisks.	Dust Brushes.	Berub Brushes.	Dust Pans.	Mops.	Pails.	Splittoms.	Blacking.	Shoe Brushes.	Spools Thread.	Papers Needles.	Papers Pins.	Clothes Bags.
<i>Men's Department.</i>																								
Upper 1st Hall, . . . . .	—	8	24	—	—	—	6	18	—	12	58	6	2	4	—	1	1	1	15	—	—	—	—	1
2d Hall, . . . . .	—	1	6	—	—	—	6	24	—	11	60	3	1	2	—	—	—	—	10	—	—	—	—	1
3d and 4th Halls, . . . . .	24	—	—	—	—	—	12	24	1	13	82	2	4	4	—	—	—	1	9	—	—	—	—	1
Middle 1st Hall, . . . . .	—	—	—	—	—	—	12	18	—	22	86	3	3	2	—	—	—	1	7	—	—	—	—	1
2d Hall, . . . . .	12	—	—	—	—	—	12	24	—	21	82	4	3	3	—	—	—	1	12	—	—	—	—	1
3d and 4th Halls, . . . . .	30	1	—	—	—	—	24	24	—	7	16	1	2	2	—	—	—	1	10	—	—	—	—	1
Lower 1st Hall, . . . . .	—	—	—	—	—	—	—	12	—	20	44	1	1	1	—	—	—	4	4	—	—	—	—	1
2d Hall, . . . . .	42	—	—	—	—	—	12	12	1	13	68	—	2	5	—	—	—	3	6	—	—	—	—	1
3d and 4th Halls, . . . . .	6	—	—	—	—	—	18	6	—	—	—	—	—	—	—	—	—	1	1	—	—	—	—	1
<i>Women's Department.</i>																								
Upper 1st Hall, . . . . .	—	2	—	—	—	—	12	6	—	7	50	2	1	1	—	—	—	1	1	—	—	—	—	4
2d Hall, . . . . .	—	—	—	—	—	—	—	18	—	26	74	—	—	—	—	—	—	—	—	—	—	—	—	4
3d Hall, . . . . .	—	—	—	—	—	—	—	—	—	6	38	—	—	—	—	—	—	—	—	—	—	—	—	4
4th Hall, . . . . .	—	1	—	—	—	—	—	—	—	4	60	—	—	—	—	—	—	—	—	—	—	—	—	4
Middle 1st Hall, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8
2d Hall, . . . . .	12	—	—	—	6	—	12	—	—	17	86	—	1	1	—	—	—	1	1	—	—	—	—	10
3d Hall, . . . . .	—	—	—	—	—	—	—	—	—	1	16	—	1	1	—	—	—	1	2	—	—	—	—	8
4th Hall, . . . . .	—	—	—	—	—	—	—	—	—	13	68	—	1	1	—	—	—	1	—	—	—	—	—	10
Lower 1st Hall, . . . . .	12	2	—	—	6	—	12	—	—	—	74	—	1	1	—	—	—	1	—	—	—	—	—	10
2d Hall, . . . . .	12	1	—	—	—	—	—	—	—	21	70	—	1	1	—	—	—	1	—	—	—	—	—	10
3d Hall, . . . . .	—	—	—	—	—	—	—	—	—	8	46	—	1	1	—	—	—	1	—	—	—	—	—	10
4th Hall, . . . . .	—	—	—	—	—	—	—	—	—	—	36	—	1	1	—	—	—	1	—	—	—	—	—	8
Kitchen, . . . . .	—	—	—	—	—	—	—	—	—	—	60	—	1	4	—	—	—	—	—	—	—	—	—	14
Rear, . . . . .	—	—	—	—	—	—	—	18	—	—	138	—	1	2	—	—	—	—	—	—	—	—	—	11
Centre, . . . . .	—	—	—	—	24	—	30	—	—	—	90	—	1	1	—	—	—	—	—	—	—	—	—	12
Aggregates, . . . . .	180	15	30	42	48	60	204	204	5	445	1,550	83	40	58	18	43	42	6	80	14	176	20	146	23

*24. — Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1890.</b>								
October, .	810	124	222	346	273	25	404	429
November, .	641	120	177	297	239	27	343	370
December, .	575	124	169	293	237	22	346	368
<b>1891.</b>								
January, .	596	124	180	304	227	24	334	358
February, .	500	112	165	277	208	40	309	349
March, .	523	124	185	309	241	44	297	341
April, .	541	120	177	297	221	51	405	456
May, .	708	124	183	307	222	26	415	441
June, .	835	120	180	300	289	26	408	434
July, .	882	124	115	239	287	26	423	449
August, .	759	124	125	249	234	26	391	417
September, .	741	120	194	314	245	26	406	432
Totals, .	8,111	1,460	2,072	3,532	2,923	363	4,481	4,844



*25. — List of Articles made in the Sewing-Room.*

Dresses, . . . . .	279	Spreads hemmed, . . . . .	97
Skirts, . . . . .	184	Table cloths, . . . . .	16
Shirts, . . . . .	365	Napkins hemmed, . . . . .	44
Waists, . . . . .	19	Hats trimmed, . . . . .	44
Night dresses, . . . . .	18	Collars, . . . . .	95
Drawers, . . . . .	119	Cushion, . . . . .	1
Chemise, . . . . .	227	Pillow ticks, . . . . .	59
Caps, . . . . .	419	Mattress ticks, . . . . .	69
Aprons, . . . . .	159	Clothes bags, . . . . .	39
Suspenders, pairs, . . . . .	180	Burial robes, . . . . .	6
Camisoles, . . . . .	19	Bureau spreads, . . . . .	53
Curtains, . . . . .	53	Ox blankets, . . . . .	6
Roller towels, . . . . .	312	Carpet strips hemmed, . . . . .	64
Dish towels, . . . . .	332	Yards carpeting made, . . . . .	171
Sheets, . . . . .	568	Articles repaired, . . . . .	20,613
Pillow cases, . . . . .	593		

*26. — Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	10
Hair mattresses made, new ticks, . . . . .	57
Hair mattresses made, old materials, . . . . .	95
Hair pillows made, new materials, . . . . .	20
Hair pillows made, new ticks, . . . . .	31
Hair pillows overhauled, hair repicked, . . . . .	127

27.—*Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,080 89	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 23
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	954 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.40	1 86
1886-87, . . . . .	854 97	478.54	1 97
1887-88, . . . . .	901 74	470.25	1 91
1888-89, . . . . .	955 51	469.10	2 04
1889-90, . . . . .	977 17	470.5	2 07
1890-91, . . . . .	1,016 50	457.	2 22

28. — *Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From What Cause.
Charles E. Forbes,* .	Northampton, . .	1856	1857	Term expired.
Lucien C. Boynton,* .	Uxbridge, . . .	1856	1858	Term expired.
Eliphalet Trask,* .	Springfield, . .	1856	1875	Term expired.
John C. Russell,* .	Great Barrington, .	1856	1859	Resigned.
Horace Lyman, . .	Greenfield, . . .	1856	1757	Removed.
Charles Smith, . .	Northampton, . .	1857	1860	Resigned.
Luther V. Bell,* . .	Somerville, . . .	1857	1859	Resigned.
Zebina L. Raymond,* .	Greenfield, . . .	1858	1859	Resigned.
Franklin Ripley,* .	Greenfield, . . .	1859	1860	Died in office.
Edward Dickinson,* .	Amherst, . . .	1859	1864	Resigned.
Walter Laffin,* . .	Pittsfield, . . .	1859	1866	Term expired.
Silas M. Smith,* . .	Northampton, . .	1860	1863	Term expired.
Charles Allen, . .	Greenfield, . . .	1860	1861	Resigned.
Alfred R. Field,* . .	Greenfield, . . .	1861	1864	Resigned.
Edward Hitchcock, .	Amherst, . . .	1863	1879	Resigned.
Silas M. Smith,* . .	Northampton, . .	1864	1887	Died in office.
Edmund H. Sawyer,* .	Easthampton, . .	1864	1879	Died in office.
Henry L. Sabin,* . .	Williamstown, . .	1866	1876	Term expired.
Adams C. Deane, . .	Greenfield, . . .	1875	-	Still in office.
Henry W. Taft, . .	Pittsfield, . . .	1876	-	Still in office.
William M. Gaylord, .	Northampton, . .	1879	1883	Term expired.
Lyman D. James, . .	Williamsburg, . .	1879	-	Still in office.
Christopher Merritt, .	Springfield, . . .	1883	1888	Term expired.
Sarah A. Woodworth, .	Chicopee, . . .	1884	-	Still in office.
Sarah M. Butler, . .	Northampton, . .	1884	-	Still in office.
John L. Otis, . . .	Florence, . . .	1887	1890	Resigned.
N. A. Leonard,* . .	Springfield, . . .	1888	1890	Died in office.
Alvan Barrus, . . .	Goshen, . . .	1890	-	Still in office.
Elisha Morgan, . . .	Springfield, . . .	1890	-	Still in office.

. \* Deceased.

29. — *Officers and Employees.*

Time employed, Oct. 1, 1891.

NAMES.	Years.	Months.	Days.
Edward B. Nins, M.D., superintendent, . . . . .	22	9	16
John A. Houston, M.D., assistant physician, . . . . .	2	—	7
Charles M. Holmes, M.D., assistant physician, . . . . .	2	2	21
Emily F. Wells, M.D., female physician, . . . . .	6	9	—
Walter B. Welton, clerk, . . . . .	25	7	16
John Mercier, farmer, . . . . .	24	2	—
Danford Morse, engineer, . . . . .	26	6	9
Robert H. Gallivan, supervisor, . . . . .	18	5	13
Lucy A. Gilbert, supervisor, . . . . .	24	7	20
Thomas C. Powers, steward, . . . . .	17	6	11
Matthew Powers, assistant steward, . . . . .	—	2	29
George B. Walker, baker, . . . . .	7	3	22
Minnie A. Smith, seamstress, . . . . .	3	3	27
Belle Houghton, assistant seamstress, . . . . .	—	10	8
Kate Bartlett, laundress, . . . . .	—	7	—
Inez M. Field, assistant clerk, . . . . .	1	9	3
Lucie L. Barrett, assistant supervisor, . . . . .	5	—	12
Emma Smith, assistant laundress, . . . . .	2	2	20
Mary J. Willard, assistant laundress, . . . . .	—	1	28
Marion McKenzie, assistant laundress, . . . . .	—	—	16
Henry W. Estey, attendant, . . . . .	9	6	7
William Duff, attendant, . . . . .	1	7	—
Fred S. Peters, attendant, . . . . .	1	3	7
Joseph W. Shaw, attendant, . . . . .	1	1	26
Darwin F. Keyes, attendant, . . . . .	—	8	6
Emory L. Hill, attendant, . . . . .	—	3	9
Frank Cheney, attendant, . . . . .	—	—	25
Harry Frain, attendant, . . . . .	—	4	20
Erwin Clark, attendant, . . . . .	—	5	18
Alphonso Hould, attendant, . . . . .	—	2	5
Martin Sawyer, attendant, . . . . .	—	—	26
John McCalman, attendant, . . . . .	—	1	—
Albertus Powers, attendant, . . . . .	—	—	14
Jeanette McLean, attendant, . . . . .	8	1	3
Philomene Goyette, attendant, . . . . .	8	6	13
Celeste Goyette, attendant, . . . . .	6	6	16
Alice A. Hawkes, attendant, . . . . .	3	9	27
Marion Darling, attendant, . . . . .	2	6	15
Katy A. Cook, attendant, . . . . .	2	2	5
Mary Sweeney, attendant, . . . . .	2	1	28
Adeline D. Morgan, attendant, . . . . .	3	—	12
Mary E. McClellan, attendant, . . . . .	3	2	13
Ellen Potter, attendant, . . . . .	1	9	25
Hattie LeBaron, attendant, . . . . .	1	2	2
Lucretia D. Pittsinger, attendant, . . . . .	1	1	—
Ida D. Hyde, attendant, . . . . .	—	11	28
Stella E. Boutwell, attendant, . . . . .	—	4	3
Cecile Riel, attendant, . . . . .	—	1	28
Maggie McKenzie, night watch, . . . . .	1	—	14

29. — *Officers and Employees* — Concluded.

NAMES.	Years.	Months.	Days.
Hattie Darling, centre, . . . . .	4	10	—
Sadie Kellogg, centre, . . . . .	1	8	24
Ellen Mitchell, centre, . . . . .	—	5	20
Carrie Wheeler, farmer's dining-room, . . . . .	—	—	21
Mary Mangan, cook, . . . . .	8	2	5
Alice A. Miller, assistant cook, . . . . .	2	5	14
Nellie O'Leary, assistant cook, . . . . .	1	2	4
Ella Lacore, assistant cook, . . . . .	—	3	7
George M. Locke, assistant cook, . . . . .	2	1	7
Maria B. Smith, rear, . . . . .	—	4	19
William C. Hall, assistant engineer, . . . . .	26	—	20
Nicholas Riel, night engineer, . . . . .	15	9	25
Moses Bartlett, watchman, . . . . .	2	6	25
Sifroi Belville, carpenter, . . . . .	21	5	7
Walter Tower, carpenter, . . . . .	13	10	—
Alfred Parenteau, painter, . . . . .	26	1	18
David Mercier, coachman, . . . . .	14	7	14
Benjamin Rockwell, assistant farmer, . . . . .	24	4	—
Henry Wilson, assistant farmer, . . . . .	12	5	8
James Madden, assistant farmer, . . . . .	16	—	29
Eugene Sullivan, assistant farmer, . . . . .	16	5	—
George E. Hunter, assistant farmer, . . . . .	5	5	19
Hermion Miller, assistant farmer, . . . . .	2	5	14
Frederick Frost, assistant farmer, . . . . .	—	4	29
Peter Hould, assistant farmer, . . . . .	—	4	8
James F. Whalen, assistant farmer, . . . . .	—	1	7
Alfred Belville, carboy, . . . . .	1	8	2
Augustus Graves, florist, . . . . .	—	7	22











PUBLIC DOCUMENT

THIRTY-SIXTH ANNUAL REPORT

OF THE

CHARITABLE CORPORATION

YEAR ENDING 1900

STATE PRINTERS,  
BOSTON, MASS.



Paul C. Smith, Bay St. George, N.S.

HOSPITAL FOR INSANE.  
NORTHAMPTON, MASS.

PUBLIC DOCUMENT . . . .

No. 21

# THIRTY-SEVENTH ANNUAL REPORT

THE TRUSTEES

OF THE

## NORTHAMPTON LUNATIC HOSPITAL,

FOR

YEAR ENDING SEPTEMBER 30, 1892.

BOSTON :

WRIGHT & POTTER PRINTING CO., STATE PRINTERS,

16 POST OFFICE SQUARE

1893.



THE GREAT FORT IN BANGOR,  
CAMP ON MOUNT

**THIRTY-SEVENTH ANNUAL REPORT**

**OF**

**THE TRUSTEES**

**OF THE**

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**FOR THE**

**YEAR ENDING SEPTEMBER 30, 1892.**

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# OFFICERS

## OF THE

### NORTHAMPTON LUNATIC HOSPITAL.

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#### TRUSTEES.

HENRY W. TAFT, Esq., . . . . .	PITTSFIELD.
LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG.
Hon. ELISHA MORGAN, . . . . .	SPRINGFIELD.
Hon. ALVAN BARRUS, . . . . .	GOSHEN.
Mrs. SARAH A. WOODWORTH, . . . . .	CHICOPEE.
Mrs. SARAH M. BUTLER, . . . . .	NORTHAMPTON.
ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.

#### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D., . . . . .	<i>Superintendent.</i>
JOHN A. HOUSTON, M.D., . . . . .	<i>Assistant Physician.</i>
CHARLES M. HOLMES, M.D., . . . . .	<i>Assistant Physician.</i>
JANE R. BAKER, M.D., . . . . .	<i>Female Physician.</i>
LEWIS F. BABBITT, . . . . .	<i>Clerk.</i>
JOHN MERCIER, . . . . .	<i>Farmer.</i>
DANFORD MORSE, . . . . .	<i>Engineer.</i>

#### TREASURER.

EDWARD B. NIMS, . . . . .	NORTHAMPTON.
---------------------------	--------------

Office at the Hospital.

#### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	<i>Male Supervisor.</i>
LUCY A. GILBERT, . . . . .	<i>Female Supervisor.</i>
THOMAS C. POWERS, . . . . .	<i>Steward.</i>
MINNIE A. SMITH, . . . . .	<i>Seamstress.</i>
EMMA G. LAMB, . . . . .	<i>Laundress.</i>
GEORGE B. WALKER, . . . . .	<i>Baker.</i>



# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

The thirty-seventh annual report of the Northampton Lunatic Hospital gives the more important results and changes for the year 1891-92. The numerous improvements which have been made and the increase in the number of admissions indicate that the work of the hospital becomes more exacting and complicated, and that the institution is becoming more of a hospital and less of an asylum.

The number of patients in the hospital Sept. 30, 1891, was 453, — men 225, women 228. One hundred and seventy-seven patients were admitted within the year, — 102 men, 75 women. The number of cases under treatment was 630, — men 327, women 303. One hundred and forty-one patients were discharged, — men 85, women 56, including 38 deaths. Four hundred and eighty-nine patients remained in the hospital Sept. 30, 1892, — men 242, women 247. The average daily number was 469.09. The largest number on any one day was 492, the smallest 446.

Thirty-seven patients were discharged as recovered, including 2 inebriates; 19 as much improved, 21 as improved, 23 not improved and 3 not insane. Of those admitted, 25 were supported by individuals, 97 by towns and cities and 53 by the State.

The number of patients committed from the general population within the year is larger by 36 than in the previous

year, and larger by 7 than in any other year since the opening of the hospital. The increase in the number of patients in the house for the year is 36. According to estimates which have been made by the State Inspector of Institutions, the normal capacity of this hospital is 394 patients. The excess at present is 95. If the numbers continue to increase for the coming year as in the past, it will be readily seen that the hospital must become greatly overcrowded. With the increase in the number of commitments there is also a large increase in the number of acute cases, which require separate rooms and special treatment.

There are in the hospital about forty patients whose residence is in the eastern part of the State. It is desirable that they be removed, so as to enable this hospital to accommodate the patients from the western district.

The meetings of the Board have been held regularly each month, with occasional visits from members in the intervals. The usual inspections of the hospital and verifications of accounts have been made regularly at these meetings. The affairs of the hospital have been conducted in the usual manner and with about the usual results.

No epidemic has prevailed, with the exception of a considerable number of cases of influenza in the winter. No suicide or serious accident has occurred. There has been a very small amount of acute disease among the patients. The number of deaths is a little larger than it has been for several years. This may be accounted for by the fact that no less than ten of the deaths were of people who were in an extremely feeble condition when admitted, and lived only a short time.

The farm has been successfully managed, and, as usual, has contributed largely to the hospital supplies.

The improvements have been carried on, several acres of waste land cleared for cultivation, new roads made and the products increased. The year has been an important one in the number of improvements that have been made in buildings. The remainder of the appropriation that was made by the Legislature of 1890-91 for enlarging the hospital and for necessary repairs, amounting to \$19,177.19, has been

expended. Of the appropriation of \$50,000 which was made at the session of the Legislature of 1891-92, \$13,321.78 has been expended. The new dormitory for male help is nearly ready for use. The carpenters' and engineers' shops are in use. Four steel boilers, each having fifteen hundred square feet of heating surface, have been placed in the boiler house, with Smith's setting. An additional story is being built over the old boiler house for rooms for female help, and the laundry will soon be removed to the same building. The building which was erected for a storehouse in 1884 is being fitted up for the reception of patients. One-half of the lower floor will be used for a dining-room, the second story will be used as a day room and the third story as a dormitory. An addition twenty-two feet square, three stories in height, is now being built, on the north side, for wash-rooms, bath-rooms and closets. A similar building has been erected adjacent to the third section of the south wing, which will contain bath-rooms and water-closets for that section. An extension twenty by twenty-five feet has been added to the west end of the same section. This addition will contain two rooms for patients, and a large open bay at the end of the corridor on each of the three stories. An iron staircase is being put into the same section, and other changes are being made which will improve the lighting and ventilation of this section. The stable for horses has been enlarged and otherwise improved. Four of the halls in the male wing have been refitted with ash doors and casings, and the floors renovated. Many other smaller improvements have been made, which do not require mention.

The financial condition of the hospital is satisfactory. The report of the treasurer is appended, giving the details:—

Cash assets September 30,	.	.	.	.	.	\$46,996 69
Liabilities,	.	.	.	.	.	6,269 72
						<hr/>
Balance,	.	.	.	.	.	\$40,726 97

The amount of purchased supplies on hand September 30 was estimated at \$10,040.06. The products of the farm on hand were estimated to be worth \$8,348.47.

## 10 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

The amount charged for board of each class of patients was as follows : —

State patients, . . . . .	\$14,846 04
Town patients, . . . . .	51,981 21
Private patients, . . . . .	19,078 05

Dr. Emily F. Wells, after seven years of efficient service, resigned to enter upon private practice. Jane R. Baker, M.D., was appointed to fill the vacancy.

In the performance of their duties the trustees have had the co-operation of the superintendent and all other officers of the institution.

HENRY W. TAFT.

LYMAN D. JAMES.

ELISHA MORGAN.

ALVAN BARRUS.

• SARAH A. WOODWORTH.

SARAH M. BUTLER.

ADAMS C. DEANE.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1892.

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Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, first, . . . . .	" 1,500 00
Assistant physician, second, . . . . .	" 600 00
Female physician, . . . . .	" 500 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 1,200 00
Assistant clerk, . . . . .	per month, 25 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 20 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 16 00
Laundress, . . . . .	" 18 00
Assistant laundresses (2), . . . . .	" 18 00
Assistant laundress, . . . . .	" 15 00
Baker, . . . . .	" 45 00
Assistant baker, . . . . .	" 20 00
Steward, . . . . .	" 50 00
Assistant steward, . . . . .	" 35 00
Attendants (male, 4), . . . . .	" 30 00
Attendants (male, 3), . . . . .	" 25 00
Attendant (male, 1), . . . . .	" 23 00
Attendants (male, 6), . . . . .	" 21 00
Attendants (female, 7), . . . . .	" 18 00
Attendants (female, 2), . . . . .	" 16 00
Attendants (female, 4), . . . . .	" 15 00



# 12 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Attendants (female, 4), . . . . .	per month,	\$14 00
Night watch (female), . . . . .	"	18 00
Housework, centre (female), . . . . .	"	17 00
Housework, centre (female), . . . . .	"	16 00
Housework, centre (female), . . . . .	"	15 00
Cook (female), . . . . .	"	18 00
Assistant cook (female), . . . . .	"	16 00
Assistant cook (female), . . . . .	"	15 00
Assistant cook (female), . . . . .	"	14 00
Farmers' dining-room (female), . . . . .	"	15 00
Housework, rear building (female), . . . . .	"	15 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Night engineer and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	30 00
Car boy, . . . . .	"	18 00
Florist, . . . . .	"	50 00
Farm hands (2), . . . . .	"	30 00
Farm hands (3), . . . . .	"	28 00
Farm hands (2), . . . . .	"	25 00
Farm hand, . . . . .	"	23 00

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1892.

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Live stock on farm, . . . . .	\$9,186 00
Products of farm on hand, . . . . .	8,348 47
Carriages and agricultural tools, . . . . .	3,350 00
Machinery and mechanical fixtures, . . . . .	9,620 00
Beds and bedding in inmates' department, . . . . .	12,500 00
Other furniture in inmates' department, . . . . .	7,000 00
Personal property of State in superintendent's department,*	8,500 00
Ready-made clothing, . . . . .	2,410 16
Dry goods, . . . . .	4,261 42
Provisions and groceries, . . . . .	3,233 26
Drugs and medicine, . . . . .	550 00
Fuel, . . . . .	306 80
Library, . . . . .	1,000 00
Paints and oils, . . . . .	475 00
Total, . . . . .	<hr/> \$70,741 11

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other departments.

## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as treasurer of the hospital, for the fiscal year ending with the 30th of September, 1892. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

### ASSETS.

Four hundred and ninety-three acres of land,	\$53,000 00
Hospital building, . . . . .	270,000 00
Farm-house, \$1,800; brick house, \$1,800, . . . . .	3,600 00
Four dwellings, . . . . .	2,000 00
Storehouse and shops, . . . . .	20,000 00
Two barns, . . . . .	5,000 00
Horse stable, . . . . .	1,900 00
Scullery and wood-house, . . . . .	500 00
Lumber-house, . . . . .	900 00
Pump-house, . . . . .	700 00
Cart shed, . . . . .	450 00
Coal-house, . . . . .	100 00
Piggery, . . . . .	3,000 00
Cattle shed, . . . . .	1,150 00
Fire-proofs for oils and paints, . . . . .	500 00
Two ice-houses, . . . . .	450 00
	\$363,250 00

### PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the trustees' report, . . . . .	\$70,741 11
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### RECEIPTS.

Cash on hand Sept. 30, 1891, . . . . .	\$28,398 34
Received from State treasurer, . . . . .	14,846 04
from towns, . . . . .	51,980 21
from individuals, . . . . .	19,078 05
from sales, . . . . .	3,487 47
from interest, . . . . .	727 16
	\$118,517 27

## PAYMENTS.

1. Salaries, wages and labor, . . . . .	\$31,017 31	
2. Provisions and supplies:—		
Meats of all kinds, . . . . .	<del>\$31,017 31</del>	
Fish of all kinds, . . . . .	1,551 89	
Fruit and vegetables, . . . . .	1,228 09	
Flour, . . . . .	3,394 05	
Grain and meal for table, . . . . .	262 92	
Tea, coffee and chocolate, . . . . .	855 09	
Grain and meal for stock, . . . . .	3,660 77	
Sugar and molasses, . . . . .	1,416 16	
Butter and cheese, . . . . .	4,405 25	
Salt and other groceries, . . . . .	1,207 57	
All other provisions, . . . . .	2,589 13	
		25,298 06
3. Clothing, . . . . .		3,720 45
4. Fuel and lights, . . . . .		2,994 35
5. Medicines and medical supplies, . . . . .		938 68
6. Furniture, beds and bedding, . . . . .		1,783 57
7. Transportation and travelling expenses,* . . . . .		844 08
8. Ordinary construction and repairs, . . . . .		2,549 74
9. Extraordinary construction and repairs, . . . . .		17,939 78
10. Miscellaneous expenses, including:—		
1. Farm stock, . . . . .	\$1,209 50	
2. Farm supplies, . . . . .	2,439 95	
3. Water, . . . . .	1,178 00	
4. Minor expenses, . . . . .	1,064 11	
5. Contingencies, . . . . .	1,277 09	
		7,168 65
Total expenses, . . . . .		\$94,249 67

## LIABILITIES.

Salaries and wages due Oct. 1, 1892, . . . . .	\$4,006 55
Miscellaneous bills due, . . . . .	2,263 17
	<u>\$6,269 72</u>
Due the institution for board Oct. 1, 1892:—	
From State, . . . . .	\$3,646 50
town, . . . . .	14,021 21
individuals, . . . . .	5,061 38
Due from the treasurer, Sept. 30, 1892, . . . . .	24,267 60
	<u>\$46,996 69</u>

## SUMMARY.

Total receipts, . . . . .	\$118,517 27
Total payments, . . . . .	94,249 67
Cash on hand Sept. 30, 1892, . . . . .	<u>\$24,267 60</u>

# 16 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Total liabilities, . . . . .	\$6,269 72
Total debts due the institution, . . . . .	46,996 69
Total expenditures, . . . . .	94,249 67

Dividing this sum by 469.09, the average number of patients,  
 we have the average expenditure per patient, . . . \$200 92  
 And the average weekly expenditure per patient, . . . 3 84

Deducting from the total expenditure, . . . . .	\$94,249 67
The extraordinary expenses, . . . . .	17,989 78

We have the current expenses, . . . . . \$76,309 89

Dividing \$76,309.89 by 469.09, the average number of pa-  
 tients, we have the average expenditure per patient, . . \$162 67  
 Making the average weekly expenditure per patient, . . . 3 11

Adding to the current expenses, . . . . .	\$76,309 89
The decrease of personal assets, . . . . .	3,460 03

We have the necessary cost for the year, . . . . \$79,769 92

Dividing \$79,769.92 by 469.09, the average number of pa-  
 tients, we have, as the annual cost of each patient, . . \$170 05  
 Making the average weekly cost of each patient, . . . 3 27

EDWARD B. NIMS,

*Treasurer.*

We have examined, as auditors, the accounts of the treasurer, and found a satis-  
 factory voucher for every entry.

ALVAN BARRUS,  
 E. MORGAN,

*Auditors.*

## FINANCIAL STATEMENT.

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Of the appropriation made by the Legislature of 1891 for the purpose of enlarging the hospital and for other necessary repairs :—

Amount of appropriation,	.	.	.	.	.	.	\$30,000 00
Drawn to Sept. 30, 1891,	.	.	.	.	.	\$10,822 81	
Drawn Oct. 27, 1891,	.	.	.	.	.	5,773 25	
Nov. 30, 1891,	.	.	.	.	.	8,953 75	
Dec. 25, 1891,	.	.	.	.	.	4,450 19	
						<hr/>	\$30,000 00

Of the appropriation made by the Legislature of 1892 for the purpose of enlarging the hospital and for other necessary repairs :—

Amount of appropriation,	.	.	.	.	.	.	\$50,000 00
Drawn July 20, 1892,	.	.	.	.	.	\$4,152 64	
Sept. 3, 1892,	.	.	.	.	.	2,445 97	
Sept. 15, 1892,	.	.	.	.	.	4,955 69	
Sept. 30, 1892,	.	.	.	.	.	1,767 48	
						<hr/>	\$13,321 78

EDWARD B. NIMS,  
*Treasurer.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The superintendent herewith respectfully presents the report of this hospital for the year 1891-92. The statistics and details of the year's work are fully presented in the accompanying tables:—

## 1. — General Statistics of the Year.

	INSANE.			HABITUAL DRUNKARDS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1891, . . . . .	225	228	453	-	-	-
Admitted within the year, . . . . .	96	74	170	6	1	7
Whole number of cases within the year, . . . . .	321	302	623	6	1	7
Discharged within the year, . . . . .	81	55	136	3	1	4
Viz.: as recovered at time of leaving the hospital, . . . . .	15	20	35	1	1	2
as much improved, . . . . .	8	10	18	1	-	1
as improved, . . . . .	12	8	20	1	-	1
as not improved, . . . . .	15	8	23	-	-	-
Deaths, . . . . .	29	9	38	-	-	-
Patients remaining Sept. 30, 1892, . . . . .	239	247	486	3	-	3
Viz.: supported as State patients, . . . . .	45	40	85	-	-	-
supported as town patients, . . . . .	164	165	329	2	-	2
supported as private patients, . . . . .	30	42	72	1	-	1
Number of different persons within the year, . . . . .	315	298	613	6	1	7
Persons admitted, . . . . .	95	78	168	6	1	7
Persons recovered, . . . . .	15	19	34	1	1	2
Daily average number of patients, . . . . .	228.24	238.92	467.16	1.90	.13	1.93
Viz : State patients, . . . . .	41.75	43.89	85.64	-	-	-
town patients, . . . . .	150.12	158.07	308.19	1.10	.13	1.23
private patients, . . . . .	36.37	36.96	73.33	.70	-	.70

1. — *General Statistics of the Year — Concluded.*

	NOT INSANE.			VOLUNTARY PATIENTS.			AGGREGATE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1891, . . .	-	-	-	-	-	-	225	228	453
Admitted within the year, . . .	-	-	-	-	-	-	102	75	177
Whole number of cases within the year, . . .	-	-	-	-	-	-	327	303	630
Discharged within the year, . . .	-	-	-	1	-	1	85	56	141
Viz.: as recovered at the time of leaving the hospital, . . .	-	-	-	-	-	-	16	21	37
as much improved, . . .	-	-	-	-	-	-	9	10	19
as improved, . . .	-	-	-	-	-	-	13	8	21
as not improved, . . .	-	-	-	-	-	-	15	8	23
as not insane, . . .	2	-	2	1	-	1	3	-	3
Deaths, . . .	-	-	-	-	-	-	29	9	38
Patients remaining Sept. 30, 1892, . . .	-	-	-	-	-	-	242	247	489
Viz.: supported as State patients, . . .	-	-	-	-	-	-	45	40	85
supported as town patients, . . .	-	-	-	-	-	-	166	165	331
supported as private patients, . . .	-	-	-	-	-	-	31	42	73
Number of different persons within the year, . . .	2	-	2	1	-	1	324	299	623
Persons admitted, . . .	-	-	-	-	-	-	101	74	175
Persons recovered, . . .	-	-	-	-	-	-	16	20	36
Daily average number of patients, . . .	-	-	-	.007	-	.007	230.04	239.05	469.09
Viz.: State patients, . . .	-	-	-	-	-	-	41.75	43.89	85.64
town patients, . . .	-	-	-	-	-	-	151.22	158.20	309.42
private patients, . . .	-	-	-	.007	-	.007	37.07	36.96	74.03

The number of patients admitted within the year is larger by 7 than in any former year, and larger by 36 than in the preceding year, not including transfers. The year began with 453 patients. One hundred and seventy-seven cases (102 men and 75 women) were admitted within the year, making the whole number under treatment 630, — 327 men, 303 women. Of these, 7 were committed under the dipso-maniac act.

One hundred forty-one cases were discharged (85 men and 56 women), including 38 deaths; which makes the number in the hospital Sept. 30, 1892, 489, — 242 men and 247 women.



The daily average for the year was 469.09. Of the discharged, 77 returned to their homes, 13 were removed out of the State, 6 eloped, 6 were removed to almshouses and 1 to Sherborn Prison.

The number of first admissions of cases was 140, of second admissions 27, of third admissions 8, of fourth admissions 1 and of seventh admissions 1. One man was discharged, re-admitted and again discharged; 1 man and 1 woman were admitted and discharged twice within the year; 1 man and 3 women were discharged and readmitted within the year; which makes the number of persons admitted within the year 175. Persons discharged 138, and persons under treatment 623, — men 324, women 299.

#### STATUS OF PATIENTS.

Of the 453 patients in the hospital Oct. 1, 1891, 80 were charged to State account, 302 to towns or cities, and 71 were supported by individuals.

The commitment of patients to the hospital is by an order of the judge of some court. If any individual comes forward and assumes the responsibility of paying for the support of any patient, such patient is put upon the list of private patients. All other patients are either charged to State account or to towns or cities, according as they have legal settlements in any town or city, or not. It is often the case that the friends of patients allow them to be charged to the town in which they have a settlement, and then indemnify the town or city, in order to save expense. Recently private patients are received at lower rates than formerly, in deference to the wishes of friends who desire to pay the bills themselves.

Twenty-six of the patients admitted this year were supported by friends, 53 were wards of the State and 96 were supported by cities or towns. Of those remaining in the hospital Sept. 30, 1892, 85 are State patients, 331 town and 73 private. The weekly average of the different classes are given in the table which follows, indicating the change in status which is continually taking place.

	1890-91.			1891-92.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . . . .	45.35	44.55	89.90	43.04	42.48	85.52
Town patients, . . . .	148.84	147.44	296.28	152.65	157.09	309.74
Private patients, . . . .	32.41	36.16	68.57	32.52	40.75	73.27

### RECOVERIES.

The number and ratios of recoveries are not large. This is owing to the large number of incurable cases that were admitted. The number reported as recovered at the time of leaving the hospital was 37. Four of these had been previously discharged as recovered. Thirty-one of those recovered had never been treated in this hospital, 4 of them were second admissions and 2 the third. The percentage of recoveries on the number admitted was 20.9, on the number of persons discharged 26.08.

### DEATHS.

The percentage of deaths in a hospital is always to a certain extent accidental, depending mainly upon the age of the patient, the character of his disease, and the progress which such a disease has made when the patient was admitted. The number of deaths within the past year is the largest that it has been for the last eleven years. The special reason for this is that 10 of the men who died were in such condition when admitted as to make death almost certain within a short time. They lived a period varying from eight to thirty-five days. Twenty-nine men and 9 women are included in the list of deaths. Six patients died of paresis, 4 of heart disease, 3 of phthisis, the same number of pneumonia and epilepsy, 1 each of old age, Bright's disease, paralysis, pyæmia, abscess of the throat, enteritis and exhaustion of toxic mania. Erysipelas caused the death of 2 feeble aged men. In 4 cases exhaustion of chronic brain disease was the cause of death. Three died of exhaustion of chronic mania and 2 of exhaustion of acute melancholia.

The percentage of deaths on the whole number treated within the year was 6.03, on the daily average 8.1. The numbers and ratios of deaths since 1858 will be found in the annexed table: —

*Deaths and their Ratios, from Sept. 30, 1858, to Oct. 1, 1892.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Aver- age No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Aver- age No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	623	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.40	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47
1887-88, .	635	470.25	14	17	31	4.88	6.59
1888-89, .	636	469.10	18	7	25	3.93	5.32
1889-90, .	616	470.50	12	9	21	3.40	4.46
1890-91, .	636	457.00	19	12	31	4.87	6.78
1891-92, .	630	469.09	29	9	38	6.03	8.1

### WORSHIP AND ENTERTAINMENT.

The question of entertainment for patients which shall be satisfactory, and at the same time useful, taxes the ingenuity and skill of those who have it in charge, to give it sufficient variety and make it attractive. The religious exercise, the reading, the illustrated lecture, the musical assembly and the dance all have their advocates. This hospital has maintained with regularity some sort of exercise a large portion of the year, for the past twenty-eight years, and it is with satisfaction that we look back and see that the work has not been in vain. So many of those who attend give evidence that the moral effect is beneficial. While in some the effect is intellectual, in others sentiment is appealed to. The hospital has no chaplain, hence the work falls mainly on the physicians. The average attendance upon the services on Sunday was 292.

The following table gives the character of the exercises : —

#### *Exercises in Chapel.*

##### 1. ON THE SABBATH : —

Divine worship, . . . . .	52 days.
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##### 2. ON SECULAR EVENINGS : —

###### (a) *Readings and Recitations, opened and closed with Music : —*

The Bible, . . . . .	2 days
The Bible and selections of poetry, . . . . .	30 days.
The Bible and selections of poetry and prose, . . . . .	18 days.
Miscellaneous selections of prose, . . . . .	72 days.
Miscellaneous selections of poetry, . . . . .	9 days.
Miscellaneous selections of poetry and prose, . . . . .	42 days.
Recitations, . . . . .	5 days.

###### (b) *Other Entertainments : —*

Pictures shown with stereopticon, . . . . .	7 days.
Concert, . . . . .	1 day.
Lecture, . . . . .	1 day.

###### (c) *Social Assemblies : —*

Quadrille parties, . . . . .	25 days.
No assembly, . . . . .	102 days.

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365 days.

### FARM.

The farm has been very productive under the usually good management. With the exception of a dry period in the

early spring, the weather has been favorable. The crops have been large and excellent, the hay well up to the standard. The quantity of milk has increased from year to year, as it has come to be a necessity among the feeble patients and in many acute cases where exhaustion and enfeebled digestion prevail. The daily average quantity of milk used in the house was 398 quarts; the total amount was 36,429 gallons, one-third of which is given in the table of products, the other two-thirds charged to the cost of animals and their food. The apples produced amount to 1,246 barrels, nearly all of which are used in the hospital. The custom of purchasing beef cattle of prime quality for slaughtering is still continued during a larger part of the year, which insures a good quality of beef for consumption.

Improvements are continually carried on each year, such as can be made by the regular employees, in the intervals between the busier seasons of the year, without additional expense. A tract of fertile land in the south-west part of the farm, which was entirely covered with bushes, is being cleared for cultivation. Another tract of twenty acres in the west part of the farm, covered with bushes and bowlders, has been cleared. Nearly the whole of the farm (which at present contains about 495 acres) can eventually be brought under cultivation, excepting some groups of trees. As usual, many patients have been employed in the farm work.

The following table gives the annual amount of hay produced :—

1864, estimated, . . .	40 tons.	1879, weighed, . . .	144 tons.
1865, " . . .	62 "	1880, " . . .	154 "
1866, " . . .	42 "	1881, " . . .	213 "
1867, weighed, . . .	82 "	1882, " . . .	170 "
1868, " . . .	86 "	1883, " . . .	197 "
1869, " . . .	91 "	1884, " . . .	174 "
1870, " . . .	74 "	1885, " . . .	251 "
1871, " . . .	75 "	1886, " . . .	269 "
1872, " . . .	91 "	1887, " . . .	302 "
1873, " . . .	84 "	1888, " . . .	305 "
1874, " . . .	120 "	1889, " . . .	331 "
1875, " . . .	100 "	1890, " . . .	336 "
1876, " . . .	111 "	1891, " . . .	295 "
1877, " . . .	154 "	1892, " . . .	315 "
1878, " . . .	179 "		

Eighty-eight hogs were slaughtered. The table gives the annual product of pork : —

*Pork raised upon the Farm.*

1865, . . . . .	6,265 pounds.	1879, . . . . .	13,569 pounds.
1866, . . . . .	5,443 "	1880, . . . . .	14,729 "
1867, . . . . .	7,416 "	1881, . . . . .	15,610 "
1868, . . . . .	7,791 "	1882, . . . . .	14,414 "
1869, . . . . .	8,469 "	1883, . . . . .	15,612 "
1870, . . . . .	7,447 "	1884, . . . . .	10,192* "
1871, . . . . .	7,868 "	1885, . . . . .	17,544 "
1872, . . . . .	11,366 "	1886, . . . . .	21,503 "
1873, . . . . .	10,511 "	1887, . . . . .	26,331 "
1874, . . . . .	12,024 "	1888, . . . . .	18,465 "
1875, . . . . .	12,693 "	1889, . . . . .	19,227 "
1876, . . . . .	12,467 "	1890, . . . . .	25,189 "
1877, . . . . .	13,605 "	1891, . . . . .	32,621 "
1878, . . . . .	14,451 "	1892, . . . . .	31,074 "

The animals on the farm Sept. 30, 1892, were: 11 oxen, 4 bulls, 66 cows, 32 heifers, 9 calves (not including those intended for slaughtering), 11 horses, 2 colts, 189 swine, 180 poultry. The following table gives the products for the year : —

*List of Farm Products in 1892.*

Hay (first growth), 222 tons, . . . . .	\$3,552 00
Hay (after growth), 93 tons, . . . . .	1,488 00
Corn fodder (dry), 35 tons, . . . . .	210 00
Corn, 649 bushels, . . . . .	382 91
Straw, 6 tons, . . . . .	72 00
Potatoes, 2,878 bushels, . . . . .	2,158 50
Broom seed, 40 bushels, . . . . .	16 00
Broom brush, 600 pounds, . . . . .	30 00
Carrots, 250 bushels, . . . . .	100 00
Sugar beets, 377 bushels, . . . . .	150 80
Beets, 160½ bushels, . . . . .	80 12
Onions, 400 bushels, . . . . .	300 00
Turnips, 875 bushels, . . . . .	93 75
Parsnips, 60 bushels, . . . . .	36 00
Beans (in shell), 197½ bushels, . . . . .	197 50
Beans (string), 9½ bushels, . . . . .	19 00
Pease (green), 133 bushels, . . . . .	133 00
Sweet corn (green), in ear, 233 bushels, . . . . .	174 50
Tomatoes, 173 bushels, . . . . .	139 00

\* Quantity diminished by disease.

## 26 NORTHAMPTON LUNATIC HOSPITAL. [Oct.

Lettuce, 95½ bushels, . . . . .	\$95 50
Cucumbers, 152½ bushels, . . . . .	152 50
Squash (summer), 106 bushels, . . . . .	106 00
Squash (winter), 6,650 pounds, . . . . .	99 75
Melons, 27,853 pounds, . . . . .	278 53
Asparagus, 34½ bushels, . . . . .	70 00
Pie-plant, 127½ bushels, . . . . .	127 50
Beet greens, 72 bushels, . . . . .	72 00
Spinach, 57 bushels, . . . . .	57 00
Cabbage, 4,059 heads, . . . . .	121 77
Currants, 20½ bushels, . . . . .	61 50
Apples, 1,246 barrels, . . . . .	1,501 00
Pears, 29½ bushels, . . . . .	29 50
Quinces, 10 bushels, . . . . .	12 50
Beef, 4,784 pounds, . . . . .	286 36
Veal (raised here), 2,212 pounds, . . . . .	232 70
Pork, 31,074 pounds, . . . . .	2,071 51
Pigs sold, 247, . . . . .	672 40
Pigs, roasting, 3, . . . . .	6 00
Chickens, 751 pounds, . . . . .	142 69
Eggs, 565 dozen, . . . . .	129 95
Milk (grass fed), 12,143 gallons, . . . . .	1,942 88
Cider, 80 barrels, . . . . .	160 00
Calf skins, . . . . .	12 00
Young calves sold, 28, . . . . .	72 00
Wood, 10 cords, . . . . .	30 00
Ensilage, 125 tons, . . . . .	312 50
Celery, . . . . .	6 25
Posts, 30, . . . . .	7 50
Husks (corn), 3 tons, . . . . .	18 00
Ice, 500 tons, . . . . .	500 00
Rye, 70 bushels, . . . . .	49 00
Citron, 100 pounds, . . . . .	2 00
Oats, 80 bushels, . . . . .	32 00

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\$18,803 87

## FINANCES.

The hospital depends for its income upon the products of the farm and the amounts charged for the board of patients. The hospital receives for the support of all State and town or city patients \$3.25 each per week. The average cost per patient for the year past was \$3.84. The term "support," as interpreted by law, includes board, clothing, medical attendance, damage to the property of the hospital, etc. No extra charge is allowed in the bills, except as provided in chapter 87, section 45, of the Public Statutes: "No pauper shall be discharged from the State hospital without

suitable clothing, and the trustees may furnish the same at their discretion, together with such sum of money, not exceeding twenty dollars, as they may deem necessary. Such money and the cost of such clothing, the expense of pursuing such lunatics as escape therefrom, and of burial of such as die in the hospital, shall be reimbursed to the trustees by the places of legal settlement of city and town paupers, and by the Commonwealth in the case of State paupers."

The daily average of State and town patients for the past year was 395.06. The charge for board of private patients is not uniform, but varies according to the arrangements made with the parties paying such board. The average price charged for all private patients who were in the hospital Sept. 30, 1892, was \$4.79 per week. The daily average number of this class was 74.03. The clothing and damages are charged extra. The average weekly pay per capita charged by the hospital for all its patients, State, town and private, in the course of the year, was \$3.52.

The amount of cash assets on hand is \$46,996.69, the liabilities are \$6,269.72. The purchased supplies on hand, including provisions, clothing and fuel, are estimated to cost \$10,040.06, making the working surplus of the hospital \$50,767.03. The amount expended from the regular receipts of the hospital for extraordinary repairs and improvements was \$17,939.78. In addition to this, \$19,177.19 was expended from the appropriation made by the Legislature of 1890-91, and \$12,921 from the appropriation made by the Legislature of 1891-92, for enlarging the hospital and for necessary repairs and improvements, making a total of \$50,037.97 expended within the year. The total amount of appropriations which have been made by the State and expended for the construction, repairs and improvements of the hospital, from the time of the passage of the act authorizing its erection, according to the list furnished by the State treasurer, is \$418,470.40.



## ACKNOWLEDGMENTS.

Thanks are due to Mr. S. E. Bridgman, Mrs. D. D. Gorham, Miss Florence Austin and others, for magazines, papers and other reading matter; to the "N. E. Staaten Zeitung" for two copies of that paper, to the "Christian Register" for one copy for the year.

The usual stereopticon exhibitions were given by Dr. T. W. Meekins. The weekly dances were favored with music from Mr. Frank's orchestra. Many of the patients have reason to be grateful to Mrs. S. A. Woodworth and Mrs. S. M. Butler for favors received.

It gives me pleasure to acknowledge the many expressions of interest and good wishes which almost constantly come from friends for the prosperity of the hospital, and success of the efforts which are made for those under our care.

## CONCLUSION.

The year has brought very few changes in the offices of the hospital. Dr. Emily F. Wells resigned her position as physician, to engage in private practice, after a long and faithful service. Jane R. Baker, M.D., was appointed to fill the vacancy, and has acceptably filled the position for about two months. The number of changes among the attendants has been larger than usual.

It is a pleasure to acknowledge the willing help which has been given by the official staff, and the assistance and support of your Board.

EDWARD B. NIMS,

*Superintendent.*

## DIETARY OF THE NORTHAMPTON LUNATIC HOSPITAL.

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[There are two bills of fare, the first of which is supplied to the tables of about two hundred persons, and the second to those of somewhat over three hundred.]

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### BILL OF FARE No. 1.

#### BREAKFAST.

*Monday.* — Tea, coffee, broiled beefsteak, potatoes, warm rolls ("bis-cuit"), bread and butter.

*Tuesday.* — Tea, coffee, fried tripe,\* potatoes, warm rolls, bread and butter.

*Wednesday.* — Tea, coffee, broiled beefsteak, potatoes and warm brown (rye and Indian) bread.

*Thursday.* — Tea, coffee, broiled beefsteak, potatoes, warm rolls, bread and butter.

*Friday.* — Tea, coffee, fried tripe,\* potatoes, warm rolls, bread and butter.

*Saturday.* — Tea, coffee, either fried fish-balls or liver, meat hash, hot corn cake, bread and butter.

*Sunday.* — Tea, coffee, cold corned beef, potatoes, warm rolls, bread, butter and fried Indian corn pudding.

#### DINNER.

*Monday.* — Roast beef, potatoes and one other vegetable, bread, butter, boiled rice with syrup or sugar

*Tuesday.* — Vegetable soup, roast or stewed veal,† potatoes and one other vegetable, bread, butter and baked Indian pudding.

*Wednesday.* — Either fried or baked fresh fish or boiled mutton, potatoes and one other vegetable, bread, butter and berry or apple pudding, with sauce.‡

*Thursday.* — Vegetable soup, corned beef, potatoes and one other vegetable, bread, butter and boiled suet pudding with syrup.

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\* Tripe is replaced in winter by sausages, and in spring by fried ham and eggs, except in the season of shad, when that fish is given once each week instead of ham and eggs, and once instead of beefsteak.

† Substituted in winter by fresh pork ribs, roasted.

‡ In spring, maple syrup is used as sauce for puddings.

*Friday.* — Either boiled or roasted mutton \* or stewed or roasted veal, potatoes and one other vegetable, bread, butter and tapioca pudding or raisin pudding of either rice, bread or cracker.

*Saturday.* — Baked beans, corned beef, potatoes and one other vegetable, pickles, bread, butter and baked bread pudding.

*Sunday.* — Cold corned beef, potatoes, warmed baked beans, pickles, bread, butter and pies, the kind varying with the season.

#### SUPPER.

*Monday.* — Tea, bread, warm corn cake, butter, hard gingerbread and a relish.†

*Tuesday.* — Tea, white bread, graham bread, butter, soft gingerbread and a relish in the warm season, substituted by buckwheat cakes in the cold season.

*Wednesday.* — Tea, bread, butter, cookies and ginger snaps and a relish.

*Thursday.* — Tea, bread, butter, pie (the kind varying with the season) and cheese.

*Friday.* — Tea, bread, butter, cake (the kind varying) and a relish.

*Saturday.* — Tea, bread, butter, doughnuts and cheese.

*Sunday.* — Tea, bread, butter, cookies and ginger snaps and blanc-mange or corn starch.

*Extra.* — In the winter and spring months hulled corn at supper, once in two weeks, on Saturdays.

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#### BILL OF FARE No. 2.

##### BREAKFAST.

*Monday.* — Coffee, cold corned beef, potatoes and bread.

*Tuesday.* — Coffee, cold roast beef, potatoes and bread.

*Wednesday.* — Coffee, meat stew, potatoes and warm rye and Indian corn brown bread.

*Thursday.* — Coffee, pickled codfish cooked in milk, potatoes and bread.

*Friday.* — Coffee, cold corned beef or meat stew, potatoes and bread.

*Saturday.* — Coffee, hash, either of meat or fish, and bread.

*Sunday.* — Coffee, cold baked beans, potatoes and bread.

Butter is used in two halls in the morning.

##### DINNER.

*Monday.* — Roast beef, potatoes and one other vegetable,‡ boiled hominy with molasses and bread.

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\* Substituted by stewed oysters in winter and spring, with some kind of roasted meat for those who prefer it.

† This term, used for the want of better, includes dried beef, berries, baked apples, apple sauce, and canned fruits, all of which are supplied, and each according to the season.

‡ Except two months in the spring.

*Tuesday.*—Vegetable soup, potatoes and one other vegetable,\* baked Indian pudding† and bread.

*Wednesday.*—Boiled fresh fish with drawn butter sauce, potatoes and one other vegetable,\* boiled hasty pudding with molasses and bread.

*Thursday.*—Vegetable soup, potatoes, cabbage or some other vegetable, boiled rice with molasses‡ and bread.

*Friday.*—Boiled codfish with drawn butter sauce, potatoes, beets or some other vegetable, boiled hasty pudding with molasses and bread.

*Saturday.*—Hot baked beans, potatoes, baked Indian or bread pudding, pickles and bread.

*Sunday.*—Cold corned beef, potatoes, pies (the kind varying with the season) and bread.

#### SUPPER.

*Monday.*—Tea, bread and butter.

*Tuesday.*—Tea, bread, butter and soft gingerbread.

*Wednesday.*—Tea, bread, butter and some kind of relish.

*Thursday.*—Tea, bread and butter.

• *Friday.*—Tea, bread, butter and soft gingerbread.

*Saturday.*—Tea, bread and butter.

*Sunday.*—Tea, bread and butter.

#### EXTRAS.

In August and September these tables are furnished at supper with either berries, tomatoes or baked apples, as many as five times a week.

In four halls, sauce, of either fresh or dried apples, is furnished as often as three times a week for the rest of the year.

#### EXTRAS FOR THE WHOLE HOUSEHOLD.

All persons have roasted turkey at dinner on Thanksgiving Day, and either turkey or chicken on one other day in the year.

From four to five bushels of green sweet corn, in the ear, is consumed in its season, daily, with the exception of Sunday.

Tomatoes, cucumbers and melons are furnished in liberal quantities in their season.

In the spring, cowslips and dandelions are largely used as greens, and horseradish as a condiment.

During eight months of the year, a barrel of apples is distributed, daily, among the patients.

Beef tea, chicken broth, mutton broth, scalded milk, arrow-root gruel, oatmeal gruel, milk punch, cracked wheat, oatmeal porridge, dry toast, milk toast, toast with dropped egg and boiled eggs, for invalids and all who are not able to take the regular fare.

\* Except two months in the spring.

† All baked puddings for the whole household are made with milk.

‡ Maple syrup is furnished, in place of molasses, three or four times in the spring.

\* 2.—*Monthly Admissions, Discharges and Averages.*

MONTHS.	ADMISSIONS.			DISCHARGES.			DEATHS.			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
1891.												
October, . . . . .	5	6	11	6	7	13	3	—	3	221.51	228.32	449.83
November, . . . . .	9	7	16	4	3	7	1	—	1	221.8	229.66	451.46
December, . . . . .	8	6	14	3	2	5	—	1	1	226.32	233.55	459.87
1892.												
January, . . . . .	9	5	14	3	4	7	9	1	10	227.97	236.87	464.84
February, . . . . .	9	6	15	6	3	9	1	1	2	226.17	234.48	460.65
March, . . . . .	6	8	14	4	3	7	4	—	4	227.16	238.90	466.06
April, . . . . .	10	9	19	6	4	10	2	—	2	226.33	241.97	468.3
May, . . . . .	6	4	10	3	2	5	2	2	4	228.096	245.387	473.48
June, . . . . .	11	6	17	7	6	13	1	1	2	229.2	244.06	473.26
July, . . . . .	15	4	19	3	4	7	—	1	1	239.74	244.19	483.93
August, . . . . .	7	7	14	6	5	11	3	—	3	243.29	245.13	488.42
September, . . . . .	7	7	14	5	4	9	3	2	5	242.9	246.13	489.03
Total of cases, . . . . .	102	75	177	56	47	103	29	9	38	—	—	—
Total of persons, . . . . .	101	74	175	54	46	100	29	9	38	—	—	—
Daily average, . . . . .	—	—	—	—	—	—	—	—	—	230.04	239.05	469.09

\* For Table No. 1, see beginning of superintendent's report

*3. — Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSIONS.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Total.	Males.	Females.	Totals.
First, . . . . .	82	58	140	—	—	—
Second, . . . . .	16	11	27	8	2	10
Third, . . . . .	3	5	8	2	4	6
Fourth, . . . . .	—	1	1	—	2	2
Seventh, . . . . .	1	—	1	5	—	5
Total of cases, . . .	102	75	177	15	8	23
Total of persons, . .	101	74	175	9	5	14

*4. — Relations to Hospital of Persons admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Total.
Never before in any hospital for insane, .	76	56	132
Former inmates of this hospital only, .	16	16	32
of other hospitals only, .	6	2	8
of this and other hospitals,	3	—	3
Total of persons, . . . . .	101	74	175

5. — *Parentage of Persons admitted.*

PLACES OF NATIVITY.	MALES.		FEMALES.		TOTAL.	
	Father.	Mother.	Father.	Mother.	Father.	Mother.
Maine, . . . . .	1	1	3	2	4	3
Vermont, . . . . .	5	4	3	—	8	4
Massachusetts, . . . . .	20	7	15	14	35	31
Connecticut, . . . . .	10	13	—	3	10	16
Rhode Island, . . . . .	1	1	2	1	3	2
New York, . . . . .	5	7	4	6	9	13
New Jersey, . . . . .	—	—	1	1	1	1
Pennsylvania, . . . . .	—	1	—	—	—	1
Canada, . . . . .	9	7	3	3	12	10
Nova Scotia, . . . . .	—	1	—	—	—	1
New Brunswick, . . . . .	1	1	—	—	1	1
England, . . . . .	6	7	8	8	14	15
Ireland, . . . . .	33	33	27	29	60	62
Scotland, . . . . .	1	1	1	1	2	2
Germany, . . . . .	2	1	—	—	2	1
France, . . . . .	2	1	—	—	2	1
Italy, . . . . .	1	1	1	—	1	1
Russia, . . . . .	—	—	1	1	1	1
Sweden, . . . . .	—	—	1	1	1	1
Unknown, . . . . .	4	4	4	4	8	8
Totals, . . . . .	101	101	74	74	175	175

6. — *Residence of Persons admitted.*

PLACES.	Males.	Females.	Total.
Hampshire County, . . . . .	7	10	17
Hampden County, . . . . .	51	40	91
Berkshire County, . . . . .	37	11	48
Franklin County, . . . . .	5	11	16
Worcester County, . . . . .	1	2	3
Totals, . . . . .	101	74	175
Cities or towns,* . . . . .	56	41	97
Country districts, . . . . .	45	33	78
Totals, . . . . .	101	74	175

\* Containing not less than 10,000 inhabitants.

## 7. — Civil Condition of Persons admitted.

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.			TOTAL.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First, . . . . .	37	22	59	38	31	69	5	5	10	2	1	3	82	58	140
Second, . . . . .	8	6	13	7	8	15	2	2	4	1	1	2	15	11	26
Third, . . . . .	2	1	3	1	3	4	-	-	-	-	-	-	3	4	7
Fourth, . . . . .	-	-	-	-	1	1	-	-	-	-	-	-	-	1	1
Seventh, . . . . .	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1
Totals, . . . . .	48	28	76	46	38	84	5	7	12	2	1	3	101	74	175

## 8. — Occupation of Persons admitted.

## MALES.

Laborers, . . . . .	23	Reporter, . . . . .	1
Carpenters, . . . . .	5	Shoemakers, . . . . .	2
Farmers, . . . . .	17	Stage driver, . . . . .	1
Mechanics, . . . . .	4	Lawyer, . . . . .	1
Machinists, . . . . .	2	Clerks, . . . . .	2
Painters, . . . . .	2	Blacksmith, . . . . .	1
Envelope cutter, . . . . .	1	Inspector of fire-arms, . . . . .	1
Brass moulder, . . . . .	1	Merchants, . . . . .	2
County commissioner, . . . . .	1	Teamster, . . . . .	1
Wire drawer, . . . . .	1	Travelling agent, . . . . .	1
Liveryman, . . . . .	1	Upholsterer, . . . . .	1
Mill operatives, . . . . .	10	Physician, . . . . .	1
Tailor, . . . . .	1	Dentist, . . . . .	1
Watchman, . . . . .	1	Clergyman, . . . . .	1
Plasterer, . . . . .	1	Plater, . . . . .	1
Shoeblack, . . . . .	1	Servant, . . . . .	1
Hostlers, . . . . .	2	None, . . . . .	6
Quarryman, . . . . .	1		
Pension agent, . . . . .	1		
Junk dealer, . . . . .	1		
		Totals, . . . . .	101

## FEMALES.

Housekeepers, . . . . .	3	Music teacher, . . . . .	1
Domestics, . . . . .	13	Dress-makers, . . . . .	2
Waitress, . . . . .	1	Seamstress, . . . . .	1
Box maker, . . . . .	1	None, . . . . .	8
Mill operatives, . . . . .	6		

## WIFE OF

Clergyman, . . . . .	1	Teamster, . . . . .	1
Carpenter, . . . . .	3	Clerk, . . . . .	1
Laborer, . . . . .	11	Calico engraver, . . . . .	1
Farmer, . . . . .	7	Mason, . . . . .	1
Railroad conductor, . . . . .	1	Carriage maker, . . . . .	1
Mill operative, . . . . .	2	Peddler, . . . . .	2
Shoe cutter, . . . . .	1	Cigar maker, . . . . .	2
Hat maker, . . . . .	1		
Physician, . . . . .	1		
Railroad employee, . . . . .	1		
		Totals, . . . . .	74



9. — *Probable Causes of Disease in Persons admitted.*

CAUSES.	PATIENTS ADMITTED.				INSANE.				HABITUAL DRUNKARDS.			
	INSANE.		HABITUAL DRUNKARDS.		PREVIOUS ATTACKS.		HEREDITARY PREDISPOSITION.		PREVIOUS ATTACKS.		HEREDITARY PREDISPOSITION.	
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Males.	Females.	Total.	Males.
1. — PHYSICAL —												
Congenital, . . . . .	7	-	7	-	-	-	-	-	-	-	-	-
Disipation, . . . . .	2	1	3	-	-	-	1	-	-	-	-	-
Epilepsy, . . . . .	3	3	6	-	-	-	-	-	-	-	-	-
Heredity, . . . . .	6	9	15	-	-	-	6	9	-	-	-	-
Ill-health, . . . . .	1	8	9	-	-	-	1	-	-	-	-	-
Influenza, . . . . .	2	2	4	-	-	-	1	-	-	-	-	-
Injury, . . . . .	8	1	9	-	-	-	1	-	-	-	-	-
Intemperance, . . . . .	21	7	28	6	1	7	3	6	4	1	5	-
Intemperance and ill-health, . . . . .	2	1	3	-	-	-	-	-	-	-	-	-
Masturbation, . . . . .	13	3	16	-	-	-	2	1	-	-	-	-
Menopause, . . . . .	-	3	3	-	-	-	-	2	-	-	-	-
Menopause and influenza, . . . . .	-	1	1	-	-	-	-	-	-	-	-	-
Overwork, . . . . .	-	2	2	-	-	-	-	-	-	-	-	-
Overwork and lactation, . . . . .	-	2	2	-	-	-	-	-	-	-	-	-



10. — *Record of Cases admitted within the Year.*

PATIENTS.	INSANE.			HABITUALLY DRUNKARDS.			NOT INSANE.			AGGREGATE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Admitted, . . . . .	96	74	170	6	1	7	—	—	—	102	75	177
Discharged recovered, . . . . .	10	14	24	1	1	2	—	—	—	11	15	26
much improved, . . . . .	5	7	12	1	—	1	—	—	—	6	7	13
improved, . . . . .	7	3	10	1	—	1	—	—	—	8	3	11
not improved, . . . . .	12	2	14	—	—	—	—	—	—	12	2	14
not insane, . . . . .	—	—	—	—	—	—	2	—	2	2	—	2
Died, . . . . .	8	6	14	—	—	—	—	—	—	8	6	14
Remaining Sept. 30, 1892, . . . . .	52	41	93	3	—	3	—	—	—	55	42	97
Number likely to recover or improve, . . . . .	11	14	25	2	—	2	—	—	—	13	14	27

11. — *Ages of Insane at First Attack, Admission and Death.*

AGES.	PERSONS FIRST ADMITTED TO ANY HOSPITAL.						PERSONS DIED.					
	AT FIRST ATTACK.			WHEN ADMITTED.			AT FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . .	-	-	-	-	-	-	-	-	-	-	-	-
15 years and less, . .	4	2	6	-	-	-	1	-	1	-	-	-
From 15 to 20 years, .	-	4	4	1	4	5	-	-	-	-	-	-
20 to 25 years, .	7	9	16	9	8	17	-	2	2	1	1	2
25 to 30 years, .	6	5	11	8	2	10	-	1	1	-	-	-
30 to 35 years, .	5	7	12	10	6	16	1	1	2	2	-	2
35 to 40 years, .	8	9	17	10	13	23	2	-	2	1	2	3
40 to 50 years, .	11	12	23	17	14	31	5	8	8	5	3	8
50 to 60 years, .	5	4	9	9	4	13	3	-	3	6	-	6
60 to 70 years, .	4	2	6	5	5	10	5	-	5	6	1	7
70 to 80 years, .	3	-	3	4	-	4	1	-	1	5	-	5
Over 80 years, . . .	1	-	1	3	-	3	-	1	1	3	2	5
Unknown, . . .	22	2	24	-	-	-	11	1	12	-	-	-
Not insane, . . .	-	-	-	-	-	-	-	-	-	-	-	-
Total of persons, .	76	56	132	76	56	132	29	9	38	29	9	38
Mean ages, . . .	29.02	33.51	30.93	44.56	20.67	34.43	30.79	34.66	31.71	58.55	50.66	56.68

12. — *Reported Duration of Disease before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO ANY HOSPITAL.			ALL OTHER ADMISSIONS.			TOTAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . .	1	—	1	—	—	—	1	—	1
Under 1 month, . . .	13	17	30	1	2	3	14	19	33
From 1 to 3 months, .	13	4	17	1	1	2	14	5	19
3 to 6 months, .	7	7	14	2	—	2	9	7	16
6 to 12 months. .	6	5	11	1	2	3	7	7	14
1 to 2 years. . .	4	6	10	2	4	6	7	10	17
2 to 5 years. . .	8	6	14	2	5	7	10	11	21
5 to 10 years. .	3	5	8	4	1	5	7	6	13
10 to 20 years, .	10	5	15	5	2	7	15	7	22
Over 20 years, . . .	4	1	5	1	1	2	5	2	7
Unknown, . . . . .	5	—	5	7	1	8	13	1	14
Not insane, . . . .	2	—	2	—	—	—	—	—	—
Total of cases, . . .	76	56	132	26	19	45	102	75	177
Total of persons, . .	76	56	132	25	18	43	101	74	175
Average in years, . .	2.23	2.64	2.40	4.32	3.63	4.03	2.75	2.88	2.80

13. — *Form of Mental Disease in Cases admitted or discharged, with Condition on Discharge.*

FORM OF DISEASE.	CASES ADMITTED.			CASES DISCHARGED.												AGGREGATE.		
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane —																		
Epilepsy.	2	3	5	1	1	2	1	1	2	1	1	2	1	1	2	3	1	4
General paralysis.	3	9	22	1	8	9	3	2	5	3	1	4	2	1	3	8	11	19
Mania, acute.	13	14	27	1	2	3	1	1	2	2	1	3	1	1	2	13	11	24
Mania, chronic.	11	14	25	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Mania, recurrent.	8	2	10	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Mania, senile.	6	1	7	4	1	5	1	1	2	1	1	2	1	1	2	5	1	6
Mania, <i>à forma</i> .	13	10	23	3	8	11	1	1	2	3	3	6	2	1	3	10	13	23
Melancholia, acute.	5	7	12	1	1	2	2	2	4	1	1	2	1	1	2	6	0	6
Melancholia, chronic.	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Melancholia, recurrent.	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Dementia, primary.	6	6	12	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Dementia, secondary.	8	1	9	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Dementia, senile.	2	2	4	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Delusional insanity.	5	5	10	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Toxic insanity.	7	3	10	4	1	5	1	1	2	1	1	2	1	1	2	1	1	2
Traumatic insanity.	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Moral insanity.	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Dipsomania.	2	2	4	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Congenital mental deficiency.	7	6	13	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Habitual drunkards.	2	2	4	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
Voluntary patients.	102	75	177	16	21	37	9	10	19	13	8	21	15	8	23	85	56	141
Not insane.	101	74	175	16	20	36	9	10	19	13	8	21	14	8	23	85	55	138
Total of cases.																		
Total of persons.																		

## 14. — Discharges, classified by Admissions and Results.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			NOT INSANE.			VOLUNTARY PATIENT.			DIED.			TOTALS.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
First,	14	17	31	7	9	16	10	7	17	11	3	14	2	-	2	1	-	1	24	5	29	69	41	110
Second,	2	2	4	2	-	2	3	-	3	2	4	6	-	-	-	-	-	-	4	2	6	13	8	21
Third,	-	2	2	-	1	1	-	-	-	2	1	3	-	-	-	-	-	-	1	2	3	3	6	9
Fourth,	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	5	-	1	1
Total of cases,	16	21	37	9	10	19	13	8	21	15	8	23	2	-	2	1	-	1	29	9	38	85	56	141
Total of persons,	15	20	35	9	10	19	13	8	21	14	8	22	2	-	2	1	-	1	29	9	38	83	55	138

## 15. — Causes of Death.

CAUSES.	INFANTS.			HABITUAL DRUNKARDS.			VOLUNTARY CASES.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Nervous system : —												
Exhaustion of chronic brain disease, .	2	1	3	—	—	—	—	—	—	2	1	3
Exhaustion of chronic mania, .	1	3	4	—	—	—	—	—	—	1	3	4
Exhaustion of toxic mania, .	1	—	1	—	—	—	—	—	—	1	—	1
Exhaustion of acute melancholia, .	1	1	2	—	—	—	—	—	—	1	1	2
Paralysis, .	1	1	2	—	—	—	—	—	—	1	1	2
Paresis, .	6	—	6	—	—	—	—	—	—	6	—	6
Epilepsy, .	2	1	3	—	—	—	—	—	—	2	1	3
Respiratory system : —												
Phthisis, .	2	1	3	—	—	—	—	—	—	2	1	3
Pneumonia, .	2	1	3	—	—	—	—	—	—	2	1	3
Circulatory system : —												
Heart disease, .	4	—	4	—	—	—	—	—	—	4	—	4
General : —												
Bright's disease, .	1	—	1	—	—	—	—	—	—	1	—	1
Krysipelas, .	2	—	2	—	—	—	—	—	—	2	—	2
Enteritis, .	1	—	1	—	—	—	—	—	—	1	—	1
Pyæmia, .	1	—	1	—	—	—	—	—	—	1	—	1
Abscess of the throat, .	1	—	1	—	—	—	—	—	—	1	—	1
Old age, .	1	—	1	—	—	—	—	—	—	1	—	1
Totals, .	29	9	38	—	—	—	—	—	—	29	9	38



## 16. — Recoveries, classified by Duration of Disease and of Treatment.

PERIOD.	LAST ATTACK.						ALL ATTACKS.					
	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane —												
Congenital, . . . . .	7	10	17	1	1	2	1	1	2	1	1	2
Under 1 month, . . . . .	1	2	3	9	8	17	3	5	8	8	8	16
From 1 to 3 months, . . . . .	1	1	2	3	6	9	3	4	7	4	4	8
3 to 6 months, . . . . .	1	1	2	1	3	4	3	3	6	1	5	6
6 to 12 months, . . . . .	1	2	3	1	1	2	1	5	6	1	2	3
1 to 2 years, . . . . .	2	2	4	1	2	3	1	1	2	1	1	2
2 to 5 years, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
5 to 10 years, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
10 to 20 years, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Unknown, . . . . .	2	3	5	3	3	6	3	3	6	3	3	6
Totals, . . . . .	15	20	35	15	20	35	15	20	35	15	20	35
Average of known cases (in months), 15.03	2.56	7.9	3.63	13.86	6.5	9.65	13.83	6.9	9.65	2.9	6.15	5.17
B. — Habitual drunkards —												
Under 1 month, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
From 1 to 3 months, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Unknown, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2
Totals, . . . . .	1	1	2	1	1	2	1	1	2	1	1	2

## 17. — Deaths, classified by Duration of Disease and Treatment.

PERIOD.	LAST ATTACK.			ALL ATTACKS.		
	DURATION BEFORE ADMISSION.		WHOLE DURATION FROM THE ATTACK.	WHOLE KNOWN PERIOD OF MENTAL DISEASE.		WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.
	Males.	Females.		Males.	Females.	
A — Insane —						
Congenital,	—	—	—	—	—	—
Under 1 month,	3	1	—	—	—	—
From 1 to 3 months,	2	—	—	—	—	—
3 to 6 months,	5	—	—	—	—	—
6 to 12 months,	3	—	—	—	—	—
1 to 2 years,	—	2	—	—	—	—
2 to 5 years,	3	3	—	—	—	—
5 to 10 years,	2	1	—	—	—	—
10 to 20 years,	1	—	—	—	—	—
Unknown,	9	1	—	—	—	—
Totals,	29	9	38	23	9	38
Average of known cases (in months),	24.2025	33.2747	32.6817	55.69	46.77	53.58
			45.68	41.15	19.77	36.08

*18. — Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of Each Year's Admissions remaining Sept. 30, 1892.*

YEARS ENDING SEPT. 30.	ADMITTED.			NEW CASES (FIRST ADMISSION).											
	Males.	Females.	Totals.	RECOVERED.						DISCHARGED AND DIED IN 1891-92.					
				MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			NOT ISSUED.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, — 2 months,	99	129	228												
1858-59,	42	46	88												
1859-60,	66	91	157												
1860-61,	58	46	104												
1861-62,	61	43	94												
1862-63,	56	57	113												
1863-64,	35	30	65												
1864-65,	54	55	109												
1865-66,	66	52	118												
1866-67,	42	69	111												
1867-68,	54	71	125												
1868-69,	72	64	136												
1869-70,	80	103	183												
1870-71,	93	88	181												
1871-72,	83	85	168												
1872-73,	89	69	158												
1873-74,	46	69	155												

[illegible]

18. — *Annual Admissions, etc.* — Concluded.

YEARS ENDING SEPT. 30.	READMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS SEPT. 30, 1892.		
	ADMITTED.			DISCHARGED AND DIED IN 1891-92.						DIED.					
				MUCH IMPROVED.			IMPROVED.								
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858, — 2 mos.,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7
1858-59,	4	1	5	—	—	—	—	—	—	—	—	—	—	1	2
1859-60,	7	3	10	—	—	—	—	—	—	—	—	—	—	1	1
1860-61,	13	7	20	—	—	—	—	—	—	—	—	—	—	1	2
1861-62,	13	5	18	—	—	—	—	—	—	—	—	—	—	1	1
1862-63,	14	11	25	—	—	—	—	—	—	—	—	—	—	1	3
1863-64,	12	15	27	—	—	—	—	—	—	—	—	—	—	1	5
1864-65,	16	9	25	—	—	—	—	—	—	—	—	—	—	1	1
1865-66,	9	9	18	—	—	—	—	—	—	—	—	—	—	—	2
1866-67,	19	8	27	—	—	—	—	—	—	—	—	—	—	1	3
1867-68,	14	13	27	—	—	—	—	—	—	—	—	—	—	1	5
1868-69,	12	21	33	—	—	—	—	—	—	—	—	—	—	—	1
1869-70,	10	9	19	—	—	—	—	—	—	—	—	—	—	—	2
1870-71,	16	14	30	—	—	—	—	—	—	—	—	—	—	2	5
1871-72,	18	13	31	—	—	—	—	—	—	—	—	—	—	2	3
1872-73,	13	10	23	—	—	—	—	—	—	—	—	—	—	2	7
1873-74,	19	19	38	—	—	—	—	—	—	—	—	—	—	5	9
1874-75,	14	16	30	—	—	—	—	—	—	—	—	—	—	6	7
1875-76,	13	14	27	—	—	—	—	—	—	—	—	—	—	4	3
1876-77,	13	14	27	—	—	—	—	—	—	—	—	—	—	4	13

[illegible]

## 19. Returned Cases admitted in Each Year and discharged in 1901-02.

YEARS ENDING MARCH 31.	ADMITTED.			RECOVERED.			NOT IMPROVED.			IMPROVED AND DIED IN 1900-01.			NOT IMPROVED.			DIED.			REMAINING MARCH 31, 1902.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
1898, - 2 months.	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1898-99.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1899-00.	4	7	11	4	7	11	4	7	11	4	7	11	4	7	11	4	7	11	4	7	11
1899-01.	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8	6	2	8
1900-02.	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10
1901-03.	6	10	16	6	10	16	6	10	16	6	10	16	6	10	16	6	10	16	6	10	16
1902-04.	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10
1903-05.	4	3	7	4	3	7	4	3	7	4	3	7	4	3	7	4	3	7	4	3	7
1904-06.	11	6	17	11	6	17	11	6	17	11	6	17	11	6	17	11	6	17	11	6	17
1905-07.	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15	8	7	15
1906-08.	6	9	15	6	9	15	6	9	15	6	9	15	6	9	15	6	9	15	6	9	15
1907-09.	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10	6	4	10
1908-10.	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12
1909-11.	6	8	14	6	8	14	6	8	14	6	8	14	6	8	14	6	8	14	6	8	14
1910-12.	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12	6	6	12
1911-13.	7	8	15	7	8	15	7	8	15	7	8	15	7	8	15	7	8	15	7	8	15
1912-14.	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4
1913-15.	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4
1914-16.	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4
1915-17.	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4	2	2	4





## 19. — Relapsed Cases admitted in Each Year and discharged in 1891-92.

YEARS ENDING SEPT. 30.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.																		REMAINING SEPT. 30, 1892.		
	ADMITTED.			DISCHARGED AND DIED IN 1891-92.																	
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.					
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.			
1858, — 2 months,	2	1	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1858-59,	2	1	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1858-59,	2	1	3	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1859-60,	5	1	6	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1860-61,	8	7	15	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1861-62,	6	2	8	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1862-63,	6	8	14	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1863-64,	6	10	16	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1864-65,	8	4	12	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1865-66,	4	3	7	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1866-67,	11	6	17	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1867-68,	8	7	15	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1868-69,	6	9	15	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1869-70,	5	4	9	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1870-71,	5	6	11	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1871-72,	6	8	14	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1872-73,	6	5	11	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1873-74,	7	8	15	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1874-75,	2	6	8	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2
1875-76,	5	6	11	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2	1	1	2

[illegible]

*20. — Showing the Results of First Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Number of persons on first admissions, . . . . .	—	—	—	2,178	2,101	4,279
Discharged recovered, . . . . .	498	431	929	—	—	—
improved, . . . . .	580	645	1,225	—	—	—
unimproved, . . . . .	415	403	818	—	—	—
not insane, . . . . .	18	13	31	—	—	—
Died, . . . . .	491	427	918	—	—	—
Remaining in the hospital Sept. 30, 1892, . . . . .	176	182	363	2,178	2,101	4,279

*Showing the Results of Readmissions.*

Readmitted, . . . . .	—	—	—	479	461	940
Discharged recovered, . . . . .	117	125	242	—	—	—
improved, . . . . .	140	137	277	—	—	—
unimproved, . . . . .	78	83	161	—	—	—
not insane, . . . . .	2	2	4	—	—	—
Died, . . . . .	76	49	125	—	—	—
Remaining in the hospital Sept. 30, 1892, . . . . .	66	65	131	479	461	940

*Showing the Results of Second Admissions.*

Second admissions, . . . . .	—	—	—	342	317	659
Discharged recovered, . . . . .	84	68	152	—	—	—
improved, . . . . .	89	95	184	—	—	—
unimproved, . . . . .	59	61	120	—	—	—
not insane, . . . . .	1	2	3	—	—	—
Died, . . . . .	61	40	101	—	—	—
Remaining in the hospital Sept. 30, 1892, . . . . .	48	51	99	342	317	659

*Showing the Results of Third Admissions.*

Third admissions, . . . . .	—	—	—	84	70	154
Discharged recovered, . . . . .	17	26	43	—	—	—
improved, . . . . .	28	19	47	—	—	—
unimproved, . . . . .	15	12	27	—	—	—
not insane, . . . . .	1	—	1	—	—	—
Died, . . . . .	12	6	18	—	—	—
Remaining in the hospital Sept. 30, 1892, . . . . .	11	7	18	84	70	154

*Showing the Results of Fourth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourth admissions, . . .	—	—	—	22	32	54
Discharged recovered, . . .	8	8	16	—	—	—
improved, . . .	7	13	20	—	—	—
unimproved, . . .	2	4	6	—	—	—
Died, . . .	2	2	4	—	—	—
Remaining in the hospital Sept. 30, 1892, . . .	3	5	8	22	32	54

*Showing the Results of Fifth Admissions.*

Fifth admissions, . . .	—	—	—	11	14	25
Discharged recovered, . . .	4	7	11	—	—	—
improved, . . .	4	4	8	—	—	—
unimproved, . . .	—	2	2	—	—	—
Died, . . .	1	—	1	—	—	—
Remaining in the hospital Sept. 30, 1892, . . .	2	1	3	11	14	25

*Showing the Results of Sixth Admissions.*

Sixth admissions, . . .	—	—	—	7	10	17
Discharged recovered, . . .	2	5	7	—	—	—
improved, . . .	3	3	6	—	—	—
unimproved, . . .	2	2	4	7	10	17

*Showing the Results of Seventh Admissions.*

Seventh admissions, . . .	—	—	—	4	5	9
Discharged recovered, . . .	1	3	4	—	—	—
improved, . . .	2	—	2	—	—	—
unimproved, . . .	—	1	1	—	—	—
Died, . . .	—	1	1	—	—	—
Remaining in the hospital Sept. 30, 1892, . . .	1	—	1	4	5	9

*Showing the Results of Eighth Admissions.*

Eighth admissions, . . .	—	—	—	2	3	5
Discharged recovered, . . .	1	2	3	—	—	—
improved, . . .	1	—	1	—	—	—
unimproved, . . .	—	1	1	2	3	5

*Showing the Results of Ninth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Ninth admissions, . . . . .	-	-	-	1	2	3
Discharged recovered, . . . . .	-	1	1	-	-	-
improved, . . . . .	1	1	2	1	2	3

*Showing the Results of Tenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Tenth admissions, . . . . .	-	-	-	1	1	2
Discharged recovered, . . . . .	-	1	1	-	-	-
improved, . . . . .	1	-	1	1	1	2

*Showing the Results of Eleventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eleventh admissions, . . . . .	-	-	-	1	1	2
Discharged recovered, . . . . .	-	1	1	-	-	-
improved, . . . . .	1	-	1	1	1	2

*Showing the Results of Twelfth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Twelfth admissions, . . . . .	-	-	-	1	1	2
Discharged recovered, . . . . .	-	1	1	-	-	-
improved, . . . . .	1	-	1	1	1	2

*Showing the Results of Thirteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Thirteenth admissions, . . . . .	-	-	-	1	1	2
Discharged recovered, . . . . .	-	1	1	-	-	-
improved, . . . . .	1	-	1	1	1	2

*Showing the Results of Fourteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourteenth admissions, . . . . .	-	-	-	1	1	2
Discharged recovered, . . . . .	-	1	1	-	-	-
improved, . . . . .	1	-	1	1	1	2

*Showing the Results of Fifteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteenth admissions, . . . . .	-	-	-	1	1	2
Discharged improved, . . . . .	-	1	1	-	-	-
Remaining in the hospital Sept. 30, 1892, . . . . .	1	-	1	1	1	2

*Showing the Results of Sixteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Sixteenth admissions, . .	-	-	-	-	1	1
Discharged improved, . .	-	1	1	-	1	1

*Showing the Results of Seventeenth Admissions.*

Seventeenth admissions, .	-	-	-	-	1	1
Remaining in the hospital Sept. 30, 1892, . . .	-	1	1	-	1	1

## 21. — Operations of the Hospital, from the Beginning, in Each Year.

	DISCHARGED AND DIED.																	
	RECOVERED.			MUCH IMPROVED.			IMPROVED.			UNIMPROVED.			NOT INSANE.			DIED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,—2 months,	99	129	228	-	-	-	-	-	-	4	-	4	2	2	4	-	-	-
1858-59, . . .	46	47	93	18	15	33	-	-	-	9	9	18	7	5	12	7	12	19
1859-60, . . .	73	94	167	19	16	35	-	-	-	12	10	22	2	2	4	9	18	27
1860-61, . . .	71	53	124	18	17	35	-	-	-	14	14	28	4	7	11	-	-	-
1861-62, . . .	64	48	112	19	15	34	-	-	-	27	15	42	9	5	14	1	9	10
1862-63, . . .	70	68	138	12	16	28	-	-	-	16	10	26	4	3	7	-	7	26
1863-64, . . .	47	45	92	30	19	49	-	-	-	19	15	34	4	6	10	-	1	1
1864-65, . . .	70	64	134	17	16	33	-	-	-	14	15	29	8	5	13	-	17	24
1865-66, . . .	75	61	136	16	10	26	-	-	-	12	7	19	5	2	7	-	18	13
1866-67, . . .	61	77	138	24	18	42	-	-	-	15	13	28	6	7	13	-	23	24
1867-68, . . .	68	84	152	21	19	40	-	-	-	22	27	49	5	7	12	-	25	18
1868-69, . . .	84	85	169	31	18	49	-	-	-	23	33	56	20	38	58	-	13	12
1869-70, . . .	90	112	202	23	27	50	-	-	-	15	43	58	22	34	56	-	22	11
1870-71, . . .	109	102	211	16	27	43	-	-	-	23	41	64	31	30	61	-	16	12
1871-72, . . .	101	98	199	25	15	40	-	-	-	33	27	60	22	27	49	-	19	18
1872-73, . . .	102	79	181	19	29	48	-	-	-	37	22	59	23	29	52	-	13	8
1873-74, . . .	106	88	193	25	12	37	-	-	-	24	19	43	27	18	45	-	14	11
1874-75, . . .	76	78	153	16	13	29	-	-	-	21	24	45	17	21	38	-	23	18
1875-76, . . .	76	77	153	19	13	32	-	-	-	18	31	49	24	23	47	-	18	19

1876-77,	68	71	139	15	18	23	-	-	-	8	13	21	15	17	32	-	-	-	21	21	42	603	475
1877-78,	40	36	76	7	19	26	-	-	-	17	27	44	16	13	29	-	-	-	14	9	23	551	429
1878-79,	63	43	106	13	13	26	-	-	-	15	13	26	11	3	14	1	1	1	14	9	23	535	442
1879-80,	59	58	117	16	12	22	5	7	12	11	12	23	9	10	19	2	2	2	17	12	29	559	446
1880-81,	57	66	123	7	13	20	6	7	13	15	15	30	6	10	16	1	1	1	16	10	26	599	463
1881-82,	62	62	124	13	15	23	4	9	13	7	14	21	14	13	27	-	-	-	24	14	38	587	459
1882-83,	73	69	147	11	17	23	9	-	9	13	15	33	21	14	35	1	1	1	17	13	30	606	469
1883-84,	61	75	136	9	16	25	6	11	17	16	19	35	10	20	36	3	1	4	13	13	25	605	463
1884-85,	66	70	136	17	12	29	4	5	9	12	17	29	10	16	26	1	2	3	16	11	27	599	476
1885-86,	85	98	183	10	19	29	8	2	10	23	36	59	20	23	43	1	-	1	14	12	26	659	491
1886-87,	72	76	145	16	8	24	5	3	8	36	31	67	21	16	37	1	2	3	13	18	31	689	499
1887-88,	87	79	166	23	13	36	3	6	9	25	23	47	12	17	29	2	-	2	14	17	31	655	481
1888-89,	98	57	155	27	15	42	6	6	12	25	40	65	35	8	43	2	1	3	18	7	25	636	446
1889-90,	91	79	170	18	14	33	5	9	14	17	17	34	12	5	17	1	2	3	12	9	21	616	498
1890-91,	82	59	141	29	16	45	7	7	14	27	36	53	13	23	40	-	-	-	19	12	31	606	453
1891-92,	102	75	177	16	21	37	9	10	19	13	8	21	15	8	23	3	-	3	29	9	38	630	489
Totals,	2,657	2,562	5,219	615	556	1,171	77	82	159	643	700	1,343	493	486	979	20	15	35	557	476	1,043	-	-



22. — *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . .	225.10	48.16	69.83	343.25
1865-66, . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . .	261.96	49.46	89.75	401.17
1867-68, . . .	262.65	47.92	103.06	413.63
1868-69, . . .	248.52	54.98	101.46	404.96
1869-70, . . .	236.19	65.04	107.23	408.46
1870-71, . . .	234.10	77.07	118.38	429.55
1871-72, . . .	226.96	89.57	112.27	428.80
1872-73, . . .	248.02	99.23	90.00	437.25
1873-74, . . .	284.48	102.88	82.06	469.42
1874-75, . . .	274.35	128.34	72.46	475.15
1875-76, . . .	259.19	146.02	68.94	474.15
1876-77, . . .	254.84	161.58	60.02	476.44
1877-78, . . .	211.90	175.71	54.75	442.36
1878-79, . . .	200.34	182.29	54.23	436.86
1879-80, . . .	197.03	198.01	54.46	450.50
1880-81, . . .	180.82	214.15	57.19	452.15
1881-82, . . .	166.84	238.25	56.52	461.61
1882-83, . . .	161.62	247.63	57.58	466.83
1883-84, . . .	155.10	251.23	56.06	462.39
1884-85, . . .	154.44	261.58	59.82	475.84
1885-86, . . .	140.23	270.52	63.61	474.36
1886-87, . . .	122.78	289.38	66.00	478.16
1887-88, . . .	112.17	294.01	64.01	470.19
1888-89, . . .	104.67	303.01	61.31	468.99
1889-90, . . .	96.86	311.17	62.07	470.10
<i>Daily Average.</i>				
1890-91, . . .	90.71	297.78	68.51	457.00
1891-92, . . .	85.64	309.42	74.08	469.09

*23. — Monthly Consumption of Gas.*

MONTHS.							Cubic Feet.	Daily Average.
<b>1891.</b>								
October,	.	.	.	.	.	.	54,400	1,754.88
November,	.	.	.	.	.	.	62,000	2,066.66
December,	.	.	.	.	.	.	79,000	2,548.38
<b>1892.</b>								
January,	.	.	.	.	.	.	78,400	2,529.08
February,	.	.	.	.	.	.	60,700	2,093.1
March,	.	.	.	.	.	.	51,700	1,667.74
April,	.	.	.	.	.	.	41,900	1,396.66
May,	.	.	.	.	.	.	34,400	1,109.67
June,	.	.	.	.	.	.	24,000	800.00
July,	.	.	.	.	.	.	22,700	732.26
August,	.	.	.	.	.	.	29,200	941.98
September,	.	.	.	.	.	.	40,300	1,343.33
Totals,	.	.	.	.	.	.	578,700	1,581.14

24. — Supplies for the Several Departments for the Year 1891-92.

	Blankets.	Bed Spreads.	Blankets.	Towels.	Curtains.	Wash Bowls.	Ewers.	Chambbers.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Saucers.	Tumbblers.	Mugs.	Bowls.	Pitchers.	Knives.	Forks.	Vegetable Dishes.	Sand Soap.	Pillow Ticks.
<i>Men's Department.</i>																								
Upper 1st Hall,	12	30	6	10	3	12	12	2	3	8	1	2	2	18	6	24	24	12	12	7	7	4	16	16
2d Hall,	12	24	6	6	6	6	1	16	3	2	3	3	18	18	18	30	18	12	4	4	6	2	11	11
3d and 4th Halls,	4	30	6	6	4	4	1	7	2	2	1	3	18	6	6	6	6	6	1	1	6	1	7	7
Middle 1st Hall,	36	24	13	7	12	4	1	27	2	3	4	4	16	24	12	8	4	4	1	1	6	1	20	20
2d Hall,	36	30	6	7	4	4	1	6	1	2	4	4	16	24	12	8	4	4	1	1	6	1	25	25
3d and 4th Halls,	36	30	6	7	4	4	1	27	2	3	4	4	16	24	12	8	4	4	1	1	6	1	25	25
Lower 1st Hall,	24	36	2	12	1	1	1	6	1	1	4	7	6	36	6	1	1	1	1	1	1	2	11	11
2d Hall,	62	44	2	12	1	1	1	22	1	1	4	7	6	36	6	1	1	1	1	1	1	1	15	15
3d and 4th Halls,	28	36	2	26	1	1	1	28	1	2	2	1	16	24	24	1	1	6	4	2	2	1	16	16
<i>Women's Department.</i>																								
Upper 1st Hall,	24	24	6	6	12	2	2	1	1	1	1	1	18	12	18	42	18	18	18	3	3	4	4	4
2d Hall,	12	12	6	12	6	2	2	1	1	1	1	1	18	12	12	24	12	12	4	4	6	4	3	3
3d Hall,	36	18	6	12	6	1	1	6	1	1	1	1	18	12	6	12	6	12	12	4	4	1	1	1
4th Hall,	36	18	6	12	6	1	1	6	1	1	1	1	18	12	6	12	6	12	12	4	4	1	1	1
Middle 1st Hall,	18	12	12	6	18	1	1	18	1	1	10	1	18	12	6	64	6	42	1	1	1	1	1	1
2d Hall,	42	36	12	12	13	1	1	6	1	1	10	1	18	12	6	64	6	42	1	1	1	1	1	1
3d Hall,	62	36	12	12	7	1	1	18	1	1	30	12	12	36	48	6	6	42	1	1	1	1	1	1
4th Hall,	62	36	12	12	7	1	1	18	1	1	30	12	12	36	48	6	6	42	1	1	1	1	1	1
Lower 1st Hall,	60	36	1	1	6	1	1	8	1	1	14	6	6	6	18	12	6	12	1	4	1	1	1	1
2d Hall,	96	48	18	26	6	64	6	42	1	1	23	8	6	6	18	6	1	18	2	1	1	1	1	1
3d Hall,	96	48	18	26	6	64	6	42	1	1	23	8	6	6	18	6	1	18	2	1	1	1	1	1
4th Hall,	96	48	18	26	6	64	6	42	1	1	23	8	6	6	18	6	1	18	2	1	1	1	1	1
Kitchen,	16	24	1	4	1	1	1	12	1	1	14	3	18	18	50	18	1	86	6	18	18	25	6	6
Rear,	16	24	1	4	1	1	1	12	1	1	14	3	18	18	50	18	1	86	6	18	18	25	6	6
Centre,	13	12	1	1	1	1	1	1	1	1	4	1	132	30	18	48	1	24	3	6	1	6	1	1
Aggregates,	766	528	74	174	41	357	122	8	7	240	9	13	266	44	350	348	37	196	68	63	30	37	163	37

## 24. — Supplies for the Several Departments for the Year 1891-92 — Concluded.

	Spoons.	Table Spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Rollers.	Wash Basins.	Brooms.	Soap, Pounds.	Whisks.	Dust Brushes.	Scrub Brushes.	Dust Pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe Brushes.	Spool Thread.	Papers Needles.	Papers Pins.	Clothes Bags.
<i>Men's Department.</i>																								
Upper 1st Hall, . . .	6	1	12	—	—	—	6	—	—	12	52	4	4	4	1	—	2	2	—	11	1	—	—	1
2d Hall, . . .	30	—	—	—	—	—	12	12	—	16	64	3	3	3	—	—	4	4	—	6	—	—	—	1
3d and 4th Halls, . .	12	—	—	—	—	—	12	6	—	10	60	3	3	3	—	—	1	1	—	6	—	—	—	1
Middle 1st Hall, . . .	12	—	—	—	—	—	12	—	—	17	90	3	3	3	—	—	1	1	—	6	—	—	—	1
2d Hall, . . .	12	—	—	—	—	—	12	24	—	19	98	3	3	3	—	—	1	1	—	6	—	—	—	1
3d and 4th Halls, . .	12	—	—	—	—	—	12	—	—	10	28	2	2	2	—	—	1	1	—	6	—	—	—	1
Lower 1st Hall, . . .	—	—	—	—	—	—	6	12	—	10	28	2	2	2	—	—	1	1	—	6	—	—	—	1
2d Hall, . . .	1	—	—	—	—	—	30	24	—	10	48	2	2	2	—	—	1	1	—	6	—	—	—	1
3d and 4th Halls, . .	12	—	—	—	—	—	24	34	1	32	63	—	1	3	3	7	2	2	—	6	—	—	—	1
<i>Women's Department.</i>																								
Upper 1st Hall, . . .	—	2	24	—	—	—	12	12	—	8	54	1	1	1	—	—	2	2	—	—	—	—	—	1
2d Hall, . . .	—	—	—	—	—	—	—	—	—	80	82	1	1	1	—	—	2	2	—	—	—	—	—	1
3d Hall, . . .	—	—	—	—	—	—	—	—	—	9	60	1	1	1	—	—	1	1	—	—	—	—	—	1
4th Hall, . . .	—	—	—	—	—	—	—	—	—	5	64	2	2	2	—	—	1	1	—	—	—	—	—	1
Middle 1st Hall, . . .	—	—	—	—	—	—	12	—	—	16	78	2	2	2	—	—	1	1	—	—	—	—	—	1
2d Hall, . . .	72	—	—	—	—	36	—	—	—	24	88	—	1	1	—	—	2	2	—	—	—	—	—	1
3d Hall, . . .	—	—	—	—	—	—	—	—	—	11	70	—	1	1	—	—	1	1	—	—	—	—	—	1
4th Hall, . . .	12	—	—	—	—	86	—	—	—	8	72	—	1	1	—	—	1	1	—	—	—	—	—	1
Lower 1st Hall, . . .	12	—	—	—	—	—	—	—	—	13	84	1	1	1	—	—	2	2	—	—	—	—	—	1
2d Hall, . . .	—	—	—	—	—	—	—	—	—	26	80	1	1	1	—	—	1	1	—	—	—	—	—	1
3d Hall, . . .	—	—	—	—	—	24	—	—	—	17	66	—	1	1	—	—	2	2	—	—	—	—	—	1
4th Hall, . . .	—	—	—	—	—	—	—	—	—	8	38	—	—	—	—	—	1	1	—	—	—	—	—	1
Kitchen, . . .	—	—	—	—	—	—	12	—	—	62	59	—	—	—	—	—	1	1	—	—	—	—	—	1
Rear, . . .	—	—	—	—	—	—	36	18	—	—	66	—	—	—	—	—	1	1	—	—	—	—	—	1
Centre, . . .	—	—	—	—	—	—	—	—	—	77	163	11	6	3	—	—	5	5	—	—	—	—	—	1
Aggregation, . . .	181	23	38	24	54	100	204	154	9	463	1,731	43	49	32	20	95	59	12	68	6	192	30	138	12

*25. — Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1891.</b>								
October, .	639	124	187	311	272	27	392	419
November, .	642	120	147	267	218	24	319	343
December, .	691	124	144	268	236	19	392	411
<b>1892.</b>								
January, .	555	124	156	280	234	30	364	394
February, .	553	116	150	266	254	23	364	387
March, .	588	124	179	303	259	25	432	457
April, .	640	120	171	291	291	22	364	386
May, .	607	124	165	289	271	22	370	392
June, .	654	120	148	268	262	26	391	417
July, .	684	124	153	277	250	26	361	387
August, .	643	124	159	283	337	27	380	407
September, .	647	120	161	281	289	24	389	413
Totals, .	7,543	1,464	1,920	3,384	3,173	295	4,518	4,813

*26. — List of Articles made in the Sewing-room.*

Dresses, . . . . .	363	Pillow cases, . . . . .	538
Skirts, . . . . .	142	Spreads hemmed, . . . . .	75
Shirts, . . . . .	206	Table cloths, . . . . .	22
Waists, . . . . .	39	Napkins, . . . . .	72
Night dresses, . . . . .	20	Hats trimmed, . . . . .	14
Drawers, . . . . .	169	Pillow ticks, . . . . .	16
Chemise, . . . . .	177	Mattress ticks, . . . . .	63
Aprons, . . . . .	176	Feather ticks, . . . . .	6
Caps, . . . . .	307	Clothes bags, . . . . .	10
Suspenders, . . . . .	86	Ox blankets, . . . . .	2
Camisoles, . . . . .	25	Meat cloths, . . . . .	2
Curtains, . . . . .	141	Yards carpeting made, . . . . .	451
Roller towels, . . . . .	230	Carpet strips hemmed, . . . . .	110
Dish towels, . . . . .	411	Articles repaired, . . . . .	18,018
Sheets, . . . . .	717		

*27. — Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	23
Hair mattresses made, new ticks, . . . . .	54
Hair mattresses made, old materials, . . . . .	87
Hair pillows made, new materials, . . . . .	28
Hair pillows made, new ticks, . . . . .	51
Hair pillows overhauled, hair repicked, . . . . .	146

28. — *Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,080 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,066 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 80	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878 79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	954 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.40	1 86
1886-87, . . . . .	854 97	478.54	1 97
1887-88, . . . . .	901 74	470.25	1 91
1888-89, . . . . .	955 51	469.10	2 04
1889-90, . . . . .	977 17	470.5	2 07
1890-91, . . . . .	1,016 50	457.	2 22
1891-92, . . . . .	1,083 19	469.09	2 31

29. — *Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From What Cause.
Charles E. Forbes,*	Northampton,	1856	1857	Term expired.
Lucien C. Boynton,*	Uxbridge,	1856	1858	Term expired.
Eliphalet Trask,*	Springfield,	1856	1875	Term expired.
John C. Russell,*	Great Barrington,	1856	1859	Resigned.
Horace Lyman,	Greenfield,	1856	1857	Removed.
Charles Smith,*	Northampton,	1857	1860	Resigned.
Luther V. Bell,*	Somerville,	1857	1859	Resigned.
Zebina L. Raymond,*	Greenfield,	1858	1859	Resigned.
Franklin Ripley,*	Greenfield,	1859	1860	Died in office.
Edward Dickinson,*	Amherst,	1859	1864	Resigned.
Walter Laffin,*	Pittsfield,	1859	1866	Term expired.
Silas M. Smith,*	Northampton,	1860	1863	Term expired.
Charles Allen,	Greenfield,	1860	1861	Resigned.
Alfred R. Field,*	Greenfield,	1861	1864	Resigned.
Edward Hitchcock,	Amherst,	1863	1879	Resigned.
Silas M. Smith,*	Northampton,	1864	1887	Died in office.
Edmund H. Sawyer,*	Easthampton,	1864	1879	Died in office.
Henry L. Sabin,*	Williamstown,	1866	1876	Term expired.
Adams C. Deane,	Greenfield,	1875	-	Still in office.
Henry W. Taft,	Pittsfield,	1876	-	Still in office.
William M. Gaylord,	Northampton,	1879	1883	Term expired.
Lyman D. James,	Williamsburg,	1879	-	Still in office.
Christopher Merritt,	Springfield,	1883	1888	Term expired.
Sarah A. Woodworth,	Chicopee,	1884	-	Still in office.
Sarah M. Butler,	Northampton,	1884	-	Still in office.
John L. Otis,	Florence,	1887	1890	Resigned.
N. A. Leonard,*	Springfield,	1888	1890	Died in office.
Alvan Barrus,	Goshen,	1890	-	Still in office.
Elisha Morgan,	Springfield,	1890	-	Still in office.

\* Deceased.



30. — *Officers and Employees.*

Time employed, Oct. 1, 1892.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M.D., superintendent, . . . . .	23	9	16
John A. Houston, M.D., assistant physician, . . . . .	3	—	7
Charles M. Holmes, M.D., assistant physician, . . . . .	3	2	21
Jane R. Baker, M.D., female physician, . . . . .	—	1	28
Lewis F. Babbitt, clerk, . . . . .	—	11	19
John Mercier, farmer, . . . . .	25	2	—
Danford Morse, engineer, . . . . .	27	6	9
Robert H. Gallivan, supervisor, . . . . .	19	5	13
Lucy A. Gilbert, supervisor, . . . . .	25	7	20
Thomas C. Powers, steward, . . . . .	18	6	11
Matthew Powers, assistant steward, . . . . .	1	2	29
George B. Walker, baker, . . . . .	8	3	22
Minnie A. Smith, seamstress, . . . . .	4	9	28
Belle Houghton, assistant seamstress, . . . . .	1	10	8
Emma G. Lamb, laundress, . . . . .	—	8	—
Inez M. Field, assistant clerk, . . . . .	2	9	3
Lucie L. Barrett, assistant supervisor, . . . . .	6	—	12
Emma Smith, assistant laundress, . . . . .	3	2	20
Mary A. McKenzie, assistant laundress, . . . . .	1	—	16
Chloe L. Marks, assistant laundress, . . . . .	—	4	—
Henry W. Estey, attendant, . . . . .	10	6	7
Martin Sawyer, attendant, . . . . .	1	—	26
Albertus A. Powers, attendant, . . . . .	1	—	14
Charles E. Critchett, attendant, . . . . .	—	10	26
William E. Larabee, attendant, . . . . .	—	8	15
Martin V. B. Vance, attendant, . . . . .	—	8	7
Harry F. Sanderson, attendant, . . . . .	—	7	12
David Lynch, attendant, . . . . .	—	3	28
Samuel L. Williams, attendant, . . . . .	—	3	4
John Mariz, attendant, . . . . .	—	3	4
Charles Smith, attendant, . . . . .	—	1	9
Stephen Larkin, attendant, . . . . .	—	1	6
Charles J. Downey, attendant, . . . . .	—	1	4
Chauncey Cameron, attendant, . . . . .	—	—	5
Jeanette McLean, attendant, . . . . .	9	1	3
Mary Sweeney, attendant, . . . . .	6	9	9
Adeline D. Morgan, attendant, . . . . .	4	—	12
Ellen C. Potter, attendant, . . . . .	2	9	25
Lucretia D. Pittsinger, attendant, . . . . .	2	1	—
Cecile Riel, attendant, . . . . .	14	8	9
Emma F. Matoon, attendant, . . . . .	—	5	17
Luella Field, attendant, . . . . .	—	4	20
Mary W. Imlay, attendant, . . . . .	—	3	17
Jennie E. O'Brien, attendant, . . . . .	—	3	29
Mary Cook, attendant, . . . . .	—	4	—
Lida A. Hodgkins, attendant, . . . . .	—	2	22
Lovesta Allen, attendant, . . . . .	—	2	16
Mary A. Dobson, attendant, . . . . .	—	1	9

30. — *Officers and Employees*—Concluded.

NAMES.	Years.	Months.	Days.
Elizabeth A. Clark, attendant, . . . . .	—	—	12
Nora Mullane, attendant, . . . . .	—	—	11
Lizzie Bycraft, attendant, . . . . .	1	—	1
Stella E. Boutwell, night watch, . . . . .	2	—	1
Hattie Darling, centre, . . . . .	5	10	—
Abbie Larabee, centre, . . . . .	—	8	5
Hattie LeBaron, centre, . . . . .	2	2	2
Alice A. Hawkes, farmers' dining-room, . . . . .	4	9	27
Alice A. Miller, cook, . . . . .	3	5	14
Ella Lacore, assistant cook, . . . . .	1	3	7
Minnie Reardon, assistant cook, . . . . .	—	6	1
Mary Donovan, assistant cook, . . . . .	—	2	22
Nellie O'Leary, assistant cook, . . . . .	1	3	17
Maria B. Smith, rear, . . . . .	1	4	19
William C. Hall, assistant engineer, . . . . .	27	—	20
Nicholas Riel, night engineer, . . . . .	16	9	25
William Duff, watchman, . . . . .	2	7	—
Sifroi Belleville, carpenter, . . . . .	22	5	7
Walter Tower, carpenter, . . . . .	14	10	—
Alfred Parenteau, painter, . . . . .	27	1	18
David Mercier, coachman, . . . . .	15	7	14
Benjamin Rockwell, assistant farmer, . . . . .	25	4	—
Henry Wilson, assistant farmer, . . . . .	13	5	8
James Madden, assistant farmer, . . . . .	17	—	29
Eugene Sullivan, assistant farmer, . . . . .	17	5	—
George E. Hunter, assistant farmer, . . . . .	6	5	19
Hermon Miller, assistant farmer, . . . . .	3	5	14
Eugene L. Hathaway, assistant farmer, . . . . .	—	5	20
Patrick Eagan, assistant farmer, . . . . .	—	1	8
Walter T. Stephens, assistant baker, . . . . .	—	5	12
Alfred Belleville, car-boy, . . . . .	2	8	2
Augustus Graves, florist, . . . . .	1	7	22



**THIRTY-EIGHTH ANNUAL REPORT**

**OF**

**THE TRUSTEES**

**OF THE**

**NORTHAMPTON LUNATIC HOSPITAL,**

**FOR THE**

**YEAR ENDING SEPTEMBER 30, 1893.**

---

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# OFFICERS

## OF THE

### NORTHAMPTON LUNATIC HOSPITAL.

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#### TRUSTEES.

LYMAN D. JAMES, Esq., . . . . .	WILLIAMSBURG.
HON. ELISHA MORGAN, . . . . .	SPRINGFIELD.
HON. ALVAN BARRUS, . . . . .	GOSHEN.
MRS. SARAH A. WOODWORTH, . . . . .	CHICOPPEE.
MRS. SARAH M. BUTLER, . . . . .	NORTHAMPTON.
ADAMS C. DEANE, M.D., . . . . .	GREENFIELD.
WILLIAM D. MACINNES, Esq., . . . . .	PITTSFIELD.

#### RESIDENT OFFICERS.

EDWARD B. NIMS, M.D., . . . . .	<i>Superintendent.</i>
JOHN A. HOUSTON, M.D., . . . . .	<i>Assistant Physician.</i>
CHARLES M. HOLMES, M.D., . . . . .	<i>Assistant Physician.</i>
JANE R. BAKER, M.D., . . . . .	<i>Female Physician.</i>
LEWIS F. BABBITT, . . . . .	<i>Clerk.</i>
JOHN MERCIER, . . . . .	<i>Farmer.</i>
DANFORD MORSE, . . . . .	<i>Engineer.</i>

#### TREASURER.

EDWARD B. NIMS, . . . . .	NORTHAMPTON.
---------------------------	--------------

Office at the Hospital.

#### SUBORDINATE OFFICERS.

ROBERT H. GALLIVAN, . . . . .	<i>Male Supervisor.</i>
LUCY A. GILBERT, . . . . .	<i>Female Supervisor.</i>
BENJAMIN GRANT, . . . . .	<i>Steward.</i>
BRADAMANT FAIRBANKS, . . . . .	<i>Seamstress.</i>
CHLOE L. MARKS, . . . . .	<i>Laundress.</i>
GEORGE B. WALLACE, . . . . .	<i>Baker.</i>





# Commonwealth of Massachusetts.

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## TRUSTEES' REPORT.

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*To His Excellency the Governor of the Commonwealth and the Honorable Council.*

In submitting for your consideration the thirty-eighth annual report of this hospital, which has been placed in our care, we are confident that we can present a record of successful operations, in the restoration of health to patients, in the care and comfort of its inmates and in the management of its business affairs. The institution has now been open for the reception of patients thirty-five years, and has become so well known to the people of this State, that an extended statement is not necessary.

A summary of the operations of the institution since its opening shows us that 1,202 cases have been discharged as recovered, 185 as much improved and 1,380 as improved. The number of admissions has now become so large that it is necessary to remove annually more or less incurable cases to other institutions. Within the past year 42 such cases have been taken away. As it will probably be several years before the asylum for the chronic insane at Medfield will be ready for patients, it seems necessary that some increased accommodation should be provided for the increased number of cases in the mean time. The new dormitory for male patients, which is now being fitted, will accommodate fifty patients. It is also proposed to erect an infirmary building for female patients, connected with the second section of the south wing by a corridor, forty-eight feet in length, one story in height. The building will be nearly in the form of a cross, ninety feet in

length and forty-four in width, three stories in height; on either side a small wing, which will be used as dormitories. The day room is on each story at the extreme southern end, forty-four by eighteen feet. The building will accommodate about eighty patients. It will be built of brick, with brick partitions, with a veranda at the end, in the angle between one of the dormitories and the day room. Such a building will improve the classification, and give much better facilities for caring for the sick and feeble cases.

The work of repairs and improvements in the hospital has been carried on during the year as diligently as possible. The new dormitory for male help has been completed, and is now occupied. The new boiler house was put in operation on the 1st of January, and proves to be a decided improvement. New apparatus for heating the centre building and female wing has been put in, consisting of a ten-inch main steam pipe for heating the halls and rooms; a high-pressure four-inch pipe for supplying steam to the kitchen and ventilating towers, and heating water. The basement under the corridors in the female wing is divided into three sections, each of which is an air chamber. In these are stacks of radiators, which are put up in sections; each section is controlled by separate valves, to regulate the supply of heat. The air is brought into the stacks by ducts, no fans being used. The heated air is conveyed to the halls and to each room by flues in the partition walls, opening into the rooms about one and a half feet from the floor, with lock registers to control the current. Vent flues from the same rooms, opening about eight inches from the floor, pass to the attic into galvanized-iron ducts, which open into a tower for each section, in which a coil of heated pipe and damper are placed. This system has been very satisfactory in its working so far, and is a decided improvement. In each of the halls and dormitories radiators are placed. Fire-proof staircases have been put in the female wing. Fire walls are also being put in, separating each section from the other. In the basement of each section heaters and bath boilers are placed for heating water. The heat from these is utilized in ventilating the bathrooms and water-closets in the three stories directly over them.

The addition to the female wing is now completed and occupied. This, together with the third and fourth sections, have

been refitted with new floors and new finishing, and are also occupied. The second section is undergoing the same improvement. The new laundry building is nearly finished, and is being fitted up with new apparatus. Several halls in the male wing have been refitted with new finishings. The progress of the repairs and improvements in the wing is necessarily slow, on account of the crowded condition of the hospital.

The farm improvements have also been continued as far as convenient.

The number of patients in the hospital Sept. 30, 1892, was 489: of men, 242; of women, 247. One hundred and sixty-nine patients have been admitted within the year: men, 91; women, 78. Ninety-five men and 83 women have been discharged, including 37 deaths. The number remaining Sept. 30, 1893, is 480: of men, 238; of women, 242. The daily average for the year was 480.26.

The general health of the patients has been good. The amount of acute disease has been small.

The death rate is a little larger than usual, and is owing to the large number of feeble cases admitted, who were suffering from chronic diseases, and also an unusually large number of aged persons.

The medical work increases each year, as the movement of population of the hospital increases, and it is evident that a larger medical staff will soon be necessary. The clerical work of the hospital has largely increased in late years, especially since the extensive repairs and improvements have been going on, and has made it necessary to employ a supervisor of the work. Mr. F. M. Morton is now employed in that capacity.

The financial affairs of the hospital have been conducted with care and economy. The balance of the appropriation made by the Legislature of 1892, amounting to \$36,672.22, has been expended. Of the appropriation of 1893, which was \$50,000, \$25,000 has been expended.

The report of the treasurer shows —

Cash assets Sept. 30, 1893,	.	.	.	.	.	\$52,801 25
Liabilities,	.	.	.	.	.	7,536 59
						<hr/>
Balance,	.	.	.	.	.	\$45,264 66

The purchased supplies on hand Sept. 30, 1893, have cost \$10,365.08. Farm products on hand are valued at \$6,921.70.

The amount charged for board of patients in the several classes is as follows :—

State patients, . . . . .	\$13,697 66
Town patients, . . . . .	55,970 15
Private patients, . . . . .	17,698 83

No change has occurred in the official staff.

Mindful not only of the regular, but of the increasing, duties of the superintendent and those associated with him, the trustees hereby tender their appreciation of these efforts in advancing the interests of the institution.

LYMAN D. JAMES.

E. MORGAN.

ALVAN BARRUS.

SARAH A. WOODWORTH.

ADAMS C. DEANE.

WILLIAM D. MacINNES.

## LIST OF PERSONS

REGULARLY EMPLOYED AT THE NORTHAMPTON LUNATIC HOSPITAL,  
SEPT. 30, 1893.

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Superintendent and physician, . . . . .	per year, \$2,500 00
Assistant physician, first, . . . . .	" 1,500 00
Assistant physician, second, . . . . .	" 700 00
Female physician, . . . . .	" 600 00
Treasurer, . . . . .	" 300 00
Treasurer, for clerk hire and paid to clerk, . . . . .	" 200 00
Clerk, . . . . .	" 1,200 00
Farmer, . . . . .	" 700 00
Engineer, . . . . .	" 1,200 00
Assistant clerk, . . . . .	per month, 30 00
Supervisor (male), . . . . .	" 40 00
Supervisor (female), . . . . .	" 30 00
Assistant supervisor (female), . . . . .	" 25 00
Seamstress, . . . . .	" 20 00
Assistant seamstress, . . . . .	" 15 00
Laundress, . . . . .	" 18 00
Assistant laundresses (2), . . . . .	" 18 00
Assistant laundresses (2), . . . . .	" 16 00
Baker, . . . . .	" 45 00
Assistant baker, . . . . .	" 25 00
Steward, . . . . .	" 50 00
Assistant steward, . . . . .	" 35 00
Attendants (male, 4), . . . . .	" 30 00
Attendants (male, 2), . . . . .	" 25 00
Attendants (male, 4), . . . . .	" 23 00
Attendants (male, 7), . . . . .	" 21 00
Attendants (female, 4), . . . . .	" 20 00
Attendant (female, 1), . . . . .	" 18 00
Attendant (female, 1), . . . . .	" 17 00
Attendants (female, 2), . . . . .	" 16 00
Attendants (female, 2), . . . . .	" 15 00
Attendants (female, 5), . . . . .	" 14 00
Night watch (female), . . . . .	" 20 00
Housework, centre (female), . . . . .	" 17 00
Housework, centre (female, 2), . . . . .	" 16 00

Housework, rear building (female), . . . . .	per month,	\$15 00
Cook (female), . . . . .	"	20 00
Cook (female), . . . . .	"	18 00
Cooks (female, 2), . . . . .	"	16 00
Cook (female), . . . . .	"	15 00
Farmers' dining-room (female), . . . . .	"	16 00
Watchman, . . . . .	"	30 00
Carpenter, . . . . .	per day,	2 25
Carpenter, . . . . .	"	2 00
Painter, . . . . .	per month,	50 00
Night engineer and gardener in summer, . . . . .	"	30 00
Coachman, . . . . .	"	30 00
Car boy, . . . . .	"	18 00
Florist, without board, . . . . .	"	50 00
Farm hands (2), . . . . .	"	30 00
Farm hands (3), . . . . .	"	28 00
Farm hands (2), . . . . .	"	22 00
Farm hand, . . . . .	"	23 00

## INVENTORY OF STOCK AND SUPPLIES

ON HAND SEPT. 30, 1893.

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Live stock on farm, . . . . .	\$8,905 50
Products of farm on hand, . . . . .	6,921 70
Carriages and agricultural tools, . . . . .	3,139 00
Machinery and mechanical fixtures, . . . . .	11,585 00
Beds and bedding in inmates' department, . . . . .	12,000 00
Other furniture in inmates' department, . . . . .	7,000 00
Personal property of State in superintendent's department,*	8,650 00
Ready-made clothing, . . . . .	1,609 87
Dry goods, . . . . .	5,508 48
Provisions and groceries, . . . . .	3,246 73
Drugs and medicines, . . . . .	550 00
Fuel, . . . . .	400 00
Library, . . . . .	1,000 00
Paints and oils, . . . . .	385 00
	<hr/>
	\$70,901 28

\* This term is here applied to the whole of the central edifice or block, and includes all the offices, the kitchen, the bakery, the laundry, the sewing-room and other departments.



## TREASURER'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

I hereby present my report, as treasurer of the hospital, for the fiscal year ending with the 30th of September, 1893. It contains, as usual, an appraisal of the property of the institution, an account of the receipts and the disbursements of money during the year, and the financial condition at its close.

## ASSETS.

Four hundred and ninety-three acres of land, .	\$53,000 00
Hospital building, . . . . .	320,000 00
Farm-house, \$1,750; brick house, \$1,750, . .	3,500 00
Four dwellings, . . . . .	2,000 00
Storehouse and shops, . . . . .	20,000 00
Two barns, . . . . .	5,000 00
Horse stable, . . . . .	1,900 00
Scullery and wood-house, . . . . .	500 00
Lumber-house, . . . . .	900 00
Pump-house, . . . . .	700 00
Cart shed, . . . . .	450 00
Coal-house, . . . . .	50 00
Piggery, . . . . .	3,000 00
Fire-proofs for oils and paints, . . . . .	500 00
Two ice-houses, . . . . .	450 00
	<hr/> \$411,950 00

## PERSONAL ESTATE.

Stock and supplies on hand, as per inventory appended to the trustees' report, . . .	\$70,901 28
-----------------------------------------------------------------------------------------	-------------

## RECEIPTS.

Cash on hand Sept. 30, 1892, . . . . .	\$24,267 60
Received from State treasurer, . . . . .	13,697 66
from towns, . . . . .	55,970 15
from individuals, . . . . .	17,698 83
from sales, . . . . .	2,740 42
from interest, . . . . .	715 26
	<hr/> \$115,089 92

## PAYMENTS.

1. Salaries, wages and labor, . . . . .		\$31,170 85
2. Provisions and supplies:—		
Meats of all kinds, . . . . .	\$4,721 23	
Fish of all kinds, . . . . .	1,521 42	
Fruit and vegetables, . . . . .	1,235 21	
Flour, . . . . .	2,490 00	
Grain and meal for table, . . . . .	289 61	
Tea, coffee and chocolate, . . . . .	1,050 72	
Grain and meal for stock, . . . . .	3,125 36	
Sugar and molasses, . . . . .	1,893 95	
Butter and cheese, . . . . .	4,127 60	
Salt and other groceries, . . . . .	1,564 24	
All other provisions, . . . . .	2,302 59	
		<hr/> 24,321 93
3. Clothing, . . . . .		4,352 34
4. Fuel and lights, . . . . .		6,843 92
5. Medicine and medical supplies, . . . . .		1,143 92
6. Furniture, beds and bedding, . . . . .		1,620 09
7. Transportation and travelling expenses, . . . . .		840 70
8. Ordinary construction and repairs, . . . . .		1,546 93
9. Extraordinary construction and repairs, . . . . .		5,522 24
10. Miscellaneous expenses, including:—		
1. Farm stock, . . . . .	\$110 00	
2. Farm supplies, . . . . .	1,768 58	
3. Water, . . . . .	1,311 55	
4. Minor expenses, . . . . .	1,849 15	
5. Contingencies, . . . . .	2,530 05	
		<hr/> 7,569 38
Total expenses, . . . . .		<hr/> \$84,932 25

## LIABILITIES.

Salaries and wages due Oct. 1, 1893, . . . . .	\$4,266 59
Miscellaneous bills due, . . . . .	3,270 00
	<hr/> \$7,536 59
Due the institution for board Oct. 1, 1893:—	
From State, . . . . .	\$3,572 72
towns, . . . . .	14,345 40
individuals, . . . . .	4,725 46
Due from the treasurer Sept. 30, 1893, . . . . .	30,157 67
	<hr/> \$52,801 25

## SUMMARY.

Total receipts, . . . . .	\$115,089 92
Total payments, . . . . .	84,932 25
	<hr/>
Cash on hand Sept. 30, 1893, . . . . .	\$30,157 67

16      NORTHAMPTON LUNATIC HOSPITAL.      [Oct.

Total liabilities, . . . . .	\$7,536 59
Total debts due the institution, . . . . .	52,801 25
Total expenditures, . . . . .	84,932 25

Dividing this sum by 480.26, the average number of patients, we have the average expenditure per patient, . . . . .	\$176 84
And the average weekly expenditure per patient, . . . . .	3 39

Deducting from the total expenditure, . . . . .	\$84,932 25
The extraordinary expenses, . . . . .	5,522 24

We have the current expenses, . . . . .	\$79,410 01
-----------------------------------------	-------------

Dividing \$79,410.01 by 480.26, the average number of patients, we have the average expenditure per patient, . . . . .	\$165 34
Making the average weekly expenditure per patient, . . . . .	3 17

Subtracting from the current expenses, . . . . .	\$79,410 01
The increase of personal assets, . . . . .	160 17

We have the necessary cost for the year, . . . . .	\$79,249 84
----------------------------------------------------	-------------

Dividing \$79,249.84 by 480.26, the average number of patients, we have, as the annual cost of each patient, . . . . .	\$165 01
Making the average weekly cost of each patient, . . . . .	3 16

EDWARD B. NIMS,  
*Treasurer.*

We have examined, as auditors, the accounts of the treasurer, and found a satisfactory voucher for every entry.

E. MORGAN,  
ALVAN BARRUS,  
*Auditors.*

## FINANCIAL STATEMENT.

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Of the appropriation made by the Legislature of 1892 for the purpose of enlarging the hospital and for other necessary repairs :—

Amount of appropriation, . . . . .	\$50,000 00
Drawn to Sept. 30, 1892, . . . . .	\$13,321 78
Drawn Nov. 26, 1892, . . . . .	4,178 79
Dec. 23, 1892, . . . . .	8,703 43
Jan. 20, 1893, . . . . .	8,394 06
Feb. 25, 1893, . . . . .	6,674 09
Mar. 20, 1893, . . . . .	5,199 11
Apr. 22, 1893, . . . . .	3,528 74
	<hr/>
	\$50,000 00

Of the appropriation made by the Legislature of 1893 for the purpose of enlarging the hospital and for other necessary repairs :—

Amount of appropriation, . . . . .	\$50,000 00
Drawn July 6, 1893, . . . . .	\$10,759 35
July 22, 1893, . . . . .	5,605 09
Sept. 15, 1893, . . . . .	5,580 30
Sept. 30, 1893, . . . . .	3,055 26
	<hr/>
	\$25,000 00

EDWARD B. NIMS,  
*Treasurer.*

## SUPERINTENDENT'S REPORT.

*To the Trustees of the Northampton Lunatic Hospital.*

The report for the year 1892-93 is hereby respectfully submitted for your information : —

### 1. — General Statistics of the Year.

	INSANE.			HABITUAL DRUNKARDS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1892, . . . . .	239	247	486	3	-	3
Admitted within the year, . . . . .	91	78	169	-	-	-
Whole number of cases within the year, . . . . .	330	325	655	3	-	3
Discharged within the year, . . . . .	92	83	175	3	-	3
Viz.: as recovered at time of leaving the hospital,	20	11	31	-	-	-
as much improved, . . . . .	11	15	26	-	-	-
as improved, . . . . .	19	18	37	-	-	-
as not improved, . . . . .	21	22	43	-	-	-
as not insane, . . . . .	-	-	-	3	-	3
Deaths, . . . . .	20	17	37	-	-	-
Patients remaining Sept. 30, 1893, . . . . .	238	242	480	-	-	-
Viz.: supported as State patients, . . . . .	43	44	87	-	-	-
supported as town patients, . . . . .	165	156	321	-	-	-
supported as private patients, . . . . .	30	42	72	-	-	-
Number of different persons within the year, . . . . .	326	320	646	3	-	3
Persons admitted, . . . . .	89	77	166	-	-	-
Persons recovered, . . . . .	20	11	31	-	-	-
Daily average number of patients, . . . . .	240.95	238.90	479.85	.41	-	.41
Viz.: State patients, . . . . .	-	-	-	-	-	-
town patients, . . . . .	-	-	-	-	-	-
private patients, . . . . .	-	-	-	-	-	-

*I.—General Statistics of the Year—Concluded.*

	NOT INSANE.			AGGREGATE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
Patients in hospital Oct. 1, 1892, . . . . .	-	-	-	242	247	489
Admitted within the year, . . . . .	-	-	-	91	78	169
Whole number of cases within the year, . . . . .	-	-	-	333	325	658
Discharged within the year, . . . . .	-	-	-	95	83	178
Viz.: as recovered at time of leaving the hospital, . . . . .	-	-	-	20	11	31
as much improved, . . . . .	-	-	-	11	15	26
as improved, . . . . .	-	-	-	19	18	37
as not improved, . . . . .	-	-	-	21	22	43
as not insane, . . . . .	1	-	1	4	-	4
Deaths, . . . . .	-	-	-	20	17	37
Patients remaining Sept. 30, 1893, . . . . .	-	-	-	238	242	480
Viz.: supported as State patients, . . . . .	-	-	-	43	44	87
supported as town patients, . . . . .	-	-	-	165	156	321
supported as private patients, . . . . .	-	-	-	30	42	72
Number of different persons within the year, . . . . .	-	-	-	329	320	649
Persons admitted, . . . . .	-	-	-	89	77	166
Persons recovered, . . . . .	-	-	-	20	11	31
Daily average number of patients, . . . . .	-	-	-	241.36	238.90	480.26
Viz.: State patients, . . . . .	-	-	-	41.88	33.95	75.83
town patients, . . . . .	-	-	-	171.16	167.56	338.72
private patients, . . . . .	-	-	-	28.07	37.64	65.71

The number of patients in the hospital Oct. 1, 1892, was 489: men, 242; women, 247. The number of admissions for the year was 169: men, 91; women, 78; which is less by 8 than in the preceding year. The number discharged was 178: men, 95; women, 83; including 37 deaths. The number remaining Sept. 30, 1893, is 480: men, 238; women, 242. The daily average for the year was 480.26. The largest number present on any one day was 495; the smallest, 468. The whole number of cases under treatment was 658: men, 333; women, 325. Of those discharged, 80 returned to their homes, 16 were removed out of the State, 20 were removed to the State almshouse at Tewksbury and 22 to town or city alms-

houses. The number of first admissions was 129 ; second, 26 ; third, 10 ; fourth, 4. One man and 3 women were discharged and readmitted ; 1 man and 1 woman were discharged, readmitted and again discharged ; 1 man and 1 woman were admitted, discharged and readmitted ; 1 man was admitted twice and discharged twice ; making the number of persons admitted within the year 166, the number discharged 175 ; whole number of persons under treatment 649 : men, 329 ; women, 320.

#### STATUS OF PATIENTS.

At the beginning of the year, Oct. 1, 1892, of the 489 patients in the hospital, 84 were supported by the State, 332 by towns and cities and 73 by individuals, one person having been transferred at that time from State to town account. The number of patients charged to State account at the time of admission was 49, to towns and cities, 93, supported by individuals 24. At the end of the year, Sept. 30, 1893, 87 patients were supported by the State, 321 by towns and cities and 72 by individuals.

The figures given above indicate the classification as it stands on the hospital records, and the parties who are legally responsible for the board of patients, and to whom the bills are made out and sent. These figures are not strictly correct, for the reason that in some cases the State and towns or cities are indemnified by individuals for the board of patients. As provided in chapter 243, Acts of 1892, towns having a taxable valuation of less than five hundred thousand dollars may be reimbursed from the State treasury for the support of patients in the lunatic hospitals. The burden of supporting patients in the hospitals is of necessity unequally distributed among the towns and cities, as the number of patients is not in proportion to the ability of towns to pay the bills. If the support of all patients in the hospital were assumed by the State, the grounds for complaint would seem to be removed.

The weekly average of the different classes for two years past is given in the following table : —

	1891-92.			1892-93.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
State patients, . . . . .	43.04	42.48	85.52	45.5	37.55	83.05
Town patients, . . . . .	152.65	157.09	309.74	170.21	164.78	334.99
Private patients, . . . . .	32.52	40.75	73.27	28.5	42.88	71.38

### RECOVERIES.

Thirty-one persons were discharged as recovered. In addition, a large number were discharged as sufficiently improved to be cared for elsewhere. Five persons were discharged as recovered who had previously recovered in this hospital. Twenty-four of those recovered were admitted for the first time; 5 were second admissions; 1, third; and 1, fourth. The percentage of recoveries on the number admitted within the year was 18.3, on the number discharged was 17.4. The percentage of the whole number of these discharged as recovered, much improved and improved on the number of admissions was 55.6, on the whole number discharged was 53.3. Of the 169 admissions within the year, but 54 had any reasonable probability of recovery. In 75 of the cases admitted the disease was entered upon the hospital records as acute in character, and in many of these the duration and history were strongly suggestive of a chronic character. The remaining 94 cases were undoubtedly chronic and incurable.

### DEATHS.

The number of deaths within the year was 37. Of these, 2 were supported by the State, 25 by towns and cities and 10 by individuals.

As is usually the case in all hospitals, diseases of a chronic character are the main cause of deaths, such as consumption, organic diseases of the brain, and the exhaustion which results from long-continued mental disorder. In only 3 cases was the disease of a character which could be called acute in any sense of the word. Pneumonia was the cause in a woman who was much enfeebled by many severe attacks of epilepsy; 1 occurred from dysentery, in a woman who had been an invalid for years; 1 man died of pyæmia; three persons died of consumption; 3



of paralysis. In 16 cases organic brain disease, or exhaustion incident upon chronic brain disorder, was the cause. Four persons died of epilepsy, 2 of Bright's disease, and 3 apparently of old age. Three persons took their own lives, 2 by hanging and 1 by drowning, while out walking with his attendant. Of the deaths, 5 were of persons over eighty years of age, 12 of persons over seventy and 21 of persons over sixty.

The percentage of deaths on the daily average number was 7.7, on the whole number under treatment 5.62.

The following table gives the number of deaths and the ratios from Sept. 30, 1858 : —

*Deaths and their Ratios, from Sept. 30, 1858, to Oct. 1, 1893.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Average No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Average No. of Patients.
			Men.	Women.	Totals.		
1858-59, .	313	229.55	7	12	19	6.07	8.27
1859-60, .	398	255.96	9	18	27	6.78	10.54
1860-61, .	434	314.26	15	15	30	6.91	9.54
1861-62, .	442	313.80	9	10	19	4.29	6.05
1862-63, .	470	355.28	19	7	26	5.53	7.31
1863-64, .	475	357.63	17	30	47	9.89	13.14
1864-65, .	469	342.40	17	24	41	8.76	11.97
1865-66, .	488	376.35	18	13	31	6.35	8.23
1866-67, .	543	401.03	23	24	47	8.65	11.71
1867-68, .	565	413.41	25	17	43	7.61	10.40
1868-69, .	590	405.10	13	12	25	4.23	6.17
1869-70, .	604	408.83	22	11	33	5.46	8.07
1870-71, .	616	421.90	16	12	28	4.54	6.64
1871-72, .	619	428.72	19	18	37	5.97	8.63
1872-73, .	614	437.23	13	8	21	3.42	4.80
1873-74, .	626	469.54	14	11	25	3.99	5.32
1874-75, .	629	475.35	23	18	41	6.52	8.62
1875-76, .	629	474.21	18	19	37	5.88	7.80
1876-77, .	603	476.16	21	21	42	6.96	8.82
1877-78, .	551	442.43	14	9	23	4.17	5.19
1878-79, .	535	436.73	14	9	23	4.29	5.27
1879-80, .	559	450.51	17	12	29	5.19	6.44

*Deaths and their Ratios, etc. — Concluded.*

OFFICIAL YEAR.	Whole No. of Patients.	Daily Average No. of Patients.	DEATHS.			Per Cent. on Whole No. of Patients treated.	Per Cent. on Daily Average No. of Patients.
			Men.	Women.	Totals.		
1880-81, .	569	451.79	16	10	26	4.57	5.75
1881-82, .	587	461.66	24	14	38	6.47	8.23
1882-83, .	606	466.76	17	13	30	4.95	6.42
1883-84, .	605	463.05	12	13	25	4.13	5.39
1884-85, .	599	475.94	16	11	27	4.51	5.67
1885-86, .	659	474.40	14	12	26	3.94	5.48
1886-87, .	639	478.55	13	18	31	4.85	6.47
1887-88, .	635	470.25	14	17	31	4.88	6.59
1888-89, .	636	469.10	18	7	25	3.93	5.32
1889-90, .	616	470.50	12	9	21	3.40	4.46
1890-91, .	636	457.00	19	12	31	4.87	6.78
1891-92, .	630	469.09	29	9	38	6.03	8.1
1892-93, .	658	480.26	20	17	37	5.62	7.7

## WORSHIP AND ENTERTAINMENT.

The exercises at the evening assemblies have been continued through the year with the usual frequency.

Religious services were held on Sunday afternoons; the average attendance at these services was 294 persons. At the evening assemblies on week days the average number of persons present was about 250. The attendance at these exercises is not compulsory.

*Exercises in Chapel .*

## 1. ON THE SABBATH:—

Divine worship, . . . . . 52 days.

## 2. ON SECULAR EVENINGS:—

(a) *Readings and Recitations, opened and closed with Music:—*

The Bible and selections of prose, . . . . . 3 days.  
 The Bible and selections of poetry, . . . . . 21 days.  
 The Bible and selections of poetry and prose, . . . . . 25 days.  
 Miscellaneous selections of prose, . . . . . 64 days.  
 Miscellaneous selections of poetry, . . . . . 2 days.  
 Miscellaneous selections of poetry and prose, . . . . . 32 days.  
 Recitations, . . . . . 1 day.

(b) *Other Entertainments:—*

Pictures shown with stereopticon, . . . . .	7 days.
Ventriloquism, . . . . .	1 day.
Chalk talk, . . . . .	1 day.
Sleight of hand, . . . . .	1 day.
Lecture, . . . . .	1 day.

(c) *Social Assemblies:—*

Quadrille parties, . . . . .	26 days.
No assembly, . . . . .	128 days.

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 365 days.

## FARM.

The products of the farm were considerably lessened by the severe drought, which lasted from the first of June until the middle of August. The hay and vegetable crop are largely diminished. Apples were almost a failure. The excellent condition of the farm alone prevented a serious loss. The whole amount of milk produced was 41,358 gallons, a daily average of 453 quarts. Thorough tilling of the soil, a liberal use of fertilizers and clearing of land of boulders and bushes, is rapidly improving the farm. The total number of acres is now 495. The estimated value of this year's crops is \$17,740.76.

The animals on the farm Sept. 30, 1893, were: 6 oxen, 4 bulls, 61 cows, 18 heifers, 12 calves (not including those intended for slaughtering), 11 horses, 2 colts, 204 swine, 240 poultry.

The following table gives the annual product of hay:—

1864, estimated, . . . . .	40 tons.	1879, weighed, . . . . .	144 tons.
1865, " . . . . .	62 "	1880, " . . . . .	154 "
1866, " . . . . .	42 "	1881, " . . . . .	213 "
1867, weighed, . . . . .	82 "	1882, " . . . . .	170 "
1868, " . . . . .	86 "	1883, " . . . . .	197 "
1869, " . . . . .	91 "	1884, " . . . . .	174 "
1870, " . . . . .	74 "	1885, " . . . . .	251 "
1871, " . . . . .	75 "	1886, " . . . . .	269 "
1872, " . . . . .	91 "	1887, " . . . . .	302 "
1873, " . . . . .	84 "	1888, " . . . . .	305 "
1874, " . . . . .	120 "	1889, " . . . . .	331 "
1875, " . . . . .	100 "	1890, " . . . . .	336 "
1876, " . . . . .	111 "	1891, " . . . . .	295 "
1877, " . . . . .	154 "	1892, " . . . . .	315 "
1878, " . . . . .	179 "	1893, " . . . . .	262 "

The pork which is used in the hospital is all raised on the premises, and a portion is usually sold.

The past year 55 hogs were slaughtered.

The table gives the annual product of pork :—

*Pork raised upon the Farm.*

1865, . . . . .	6,265 pounds.	1880, . . . . .	14,729 pounds.
1866, . . . . .	5,443 "	1881, . . . . .	15,610 "
1867, . . . . .	7,416 "	1882, . . . . .	14,414 "
1868, . . . . .	7,791 "	1883, . . . . .	15,612 "
1869, . . . . .	8,469 "	1884, . . . . .	10,192* "
1870, . . . . .	7,447 "	1885, . . . . .	17,544 "
1871, . . . . .	7,863 "	1886, . . . . .	21,503 "
1872, . . . . .	11,366 "	1887, . . . . .	26,331 "
1873, . . . . .	10,511 "	1888, . . . . .	18,465 "
1874, . . . . .	12,024 "	1889, . . . . .	19,227 "
1875, . . . . .	12,693 "	1890, . . . . .	25,189 "
1876, . . . . .	12,467 "	1891, . . . . .	32,621 "
1877, . . . . .	13,605 "	1892, . . . . .	31,074 "
1878, . . . . .	14,451 "	1893, . . . . .	23,505 "
1879, . . . . .	13,569 "		

*List of Farm Products in 1893.*

Hay (first growth), 227½ tons, . . . . .	\$3,636 00
Hay (after growth), 35½ tons, . . . . .	564 00
Corn fodder (dry), 20 tons, . . . . .	120 00
Corn, 200 bushels, . . . . .	100 00
Straw, 4½ tons, . . . . .	58 00
Potatoes, 2,218 bushels, . . . . .	1,330 00
Broom seed, 40 bushels, . . . . .	16 00
Broom brush, 500 pounds, . . . . .	30 00
Carrots, 271½ bushels, . . . . .	109 05
Sugar beets, 670 bushels, . . . . .	268 00
Beets, 151½ bushels, . . . . .	88 62
Onions, 341½ bushels, . . . . .	204 90
Turnips, 342½ bushels, . . . . .	137 75
Parsnips, 60 bushels, . . . . .	36 00
Beans (in shell), 119 bushels, . . . . .	119 00
Beans (string), 12½ bushels, . . . . .	9 75
Pease (green), 117½ bushels, . . . . .	117 50
Sweet corn (green), in ear, 207 bushels, . . . . .	197 00
Tomatoes, 66 bushels, . . . . .	66 00
Lettuce, 72½ bushels, . . . . .	72 50
Cucumbers, 124 bushels, . . . . .	124 00
Squash (summer), 77½ bushels, . . . . .	77 50

\* Quantity diminished by disease.

Squash (winter), 12,800 pounds, . . . . .	\$192 00
Melons, 3,750 pounds, . . . . .	37 50
Muskmelon, 465 pounds, . . . . .	4 65
Asparagus, 42 bushels, . . . . .	84 00
Pie-plant, 61 bushels, . . . . .	61 00
Spinach, 20 bushels, . . . . .	20 00
Cabbage, 4,712 heads, . . . . .	188 48
Currants, 27½ bushels, . . . . .	79 50
Apples, 124 barrels, . . . . .	226 00
Pears, 35 bushels, . . . . .	35 00
Quinces, 11 bushels, . . . . .	13 75
Beef, 21,758 pounds, . . . . .	1,400 50
Veal, 2,757 pounds, . . . . .	290 97
Pork, 23,505 pounds, . . . . .	2,050 84
Pigs sold, 241, . . . . .	880 00
Chickens, 655 pounds, . . . . .	131 00
Eggs, 409½ dozen, . . . . .	119 15
Milk (grass-fed), 13,786 gallons, . . . . .	3,304 40
Cider, 11 barrels, . . . . .	27 50
Calf skins, 29, . . . . .	14 50
Young calves sold, 16, . . . . .	53 50
Wood, 23 cords, . . . . .	69 00
Ensilage, 125 tons, . . . . .	437 50
Celery, 432 heads, . . . . .	58 50
Posts, 35, . . . . .	8 75
Lumber, 800 feet, . . . . .	12 00
Husks (cider), 1 to . . . . .	12 00
Ice, 300 tons, . . . . .	300 00
Rye, 40 bushels, . . . . .	22 00
Oats, 30 bushels, . . . . .	10 50
Grapes, 225 pounds, . . . . .	9 20
Cauliflower, 60 heads, . . . . .	7 50
Swiss chard, 96½ bushels, . . . . .	96 50
Crab apples, 1½ bushels, . . . . .	1 50

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\$17,740 76

#### FINANCES.

The sources of the income of the hospital are mainly the sums received for the board of patients. The State, towns and cities pay for the support of their patients \$3.25 per week. This includes board, clothing and medical attendance. No extra charge is allowed for damages. The law (chapter 87, section 45, of the Public Statutes) provides that "No pauper shall be discharged from the State hospitals without suitable clothing, and the trustees may furnish the same at their discretion, together with such sums of money, not exceeding twenty

dollars, as they may deem necessary. Such money and the cost of such clothing, the expense of pursuing such lunatics as may escape therefrom, and of burial of such as die in the hospital, shall be reimbursed to the trustees by the places of legal settlement of city or town paupers, and by the Commonwealth in the case of State paupers."

The average weekly cost per patient for the past year was \$3.39. The daily average of State and town patients for the past year was 414.55. Private patients pay for board such prices as are agreed upon, at the admission of the patient. The daily average of private patients for the year was 65.71. The average price paid by all private patients who were in the hospital Sept. 30, 1893, was \$4.98.

The clothing furnished to private patients is charged extra, as are also damages, to an amount not exceeding fifty dollars annually.

*Cash Assets on Hand Sept. 30, 1893.*

Cash on hand, . . . . .	\$30,157 67
Board of private patients, . . . . .	4,725 46
of State patients, . . . . .	3,572 72
of town patients, . . . . .	14,345 40
<hr/>	
Total, . . . . .	\$52,801 25
Liabilities, . . . . .	7,536 59
<hr/>	
Balance, . . . . .	\$45,264 66
Purchased supplies on hand estimated to have cost, . . . . .	\$10,365 08
Products of farm on hand, . . . . .	6,921 70
Total working surplus, . . . . .	62,551 44

There was expended \$7,069.17 for extraordinary and necessary repairs. Of the appropriation made by the Legislature of 1892, \$36,672.22 was expended; of the appropriation made by the Legislature of 1893, \$25,000 was expended; a total of \$68,741.39 expended within the year in improvements and repairs. The sum of all appropriations made by the State for the construction, repairs and improvements of the hospital from the passage of the act authorizing its erection to Oct. 1, 1893, is \$480,142.62.

## ACKNOWLEDGMENTS.

Numerous gifts of magazines, papers and other reading matter, presents for Christmas, etc., have been received within the year. Of the contributors we may mention Miss Florence Austin, Mrs. D. D. Gorham, Mr. S. E. Bridgman, Mr. C. D. Warner, Mrs. Woodworth and Mrs. Butler. The "N. E. Staaten Zeitung" has continued to send two copies of that paper and the "Christian Register" one copy during the year. The various clergymen of the city have always been ready to conduct the services in the chapel on Sunday and at the funerals of those who were buried in the hospital cemetery. Music was furnished by Mr. Frank's orchestra for the weekly dances. The stereopticon exhibitions were given by Dr. T. W. Meekins, who has favored the hospital for many years.

The officers who were connected with the hospital at the last report remain with us. The added experience and faithful work of the staff has contributed largely to the success of the institution for the year.

With a hearty recognition of the full appreciation and ready counsel and generous support of your Board, this report is respectfully submitted.

EDWARD B. NIMS,  
*Superintendent.*

## DIETARY OF THE NORTHAMPTON LUNATIC HOSPITAL.

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[There are two bills of fare, the first of which is supplied to the tables of about two hundred persons, and the second to those of somewhat over three hundred.]

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### BILL OF FARE No. 1.

#### BREAKFAST.

- Monday.* — Tea, coffee, broiled beefsteak, potatoes, warm rolls ("biscuit"), bread and butter.
- Tuesday.* — Tea, coffee, fried tripe,\* potatoes, warm rolls, bread and butter.
- Wednesday.* — Tea, coffee, broiled beefsteak, potatoes and warm brown (rye and Indian) bread.
- Thursday.* — Tea, coffee, broiled beefsteak, potatoes, warm rolls, bread and butter.
- Friday.* — Tea, coffee, fried tripe,\* potatoes, warm rolls, bread and butter.
- Saturday.* — Tea, coffee, either fried fish-balls or liver, meat hash, hot corn cake, bread and butter.
- Sunday.* — Tea, coffee, cold corned beef, potatoes, warm rolls, bread, butter and fried Indian corn pudding.

#### DINNER.

- Monday.* — Roast beef, potatoes and one other vegetable, bread, butter, boiled rice with syrup or sugar.
- Tuesday.* — Vegetable soup, roast or stewed veal,† potatoes and one other vegetable, bread, butter and baked Indian pudding.
- Wednesday.* — Either fried or baked fresh fish or boiled mutton, potatoes and one other vegetable, bread, butter and berry or apple pudding, with sauce.‡
- Thursday.* — Vegetable soup, corned beef, potatoes and one other vegetable, bread, butter and boiled suet pudding with syrup.

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\* Tripe is replaced in winter by sausages, and in spring by fried ham and eggs, except in the season of shad, when that fish is given once each week instead of ham and eggs, and once instead of beefsteak.

† Substituted in winter by fresh pork ribs, roasted.

‡ In spring, maple syrup is used as sauce for puddings.



*Friday.* — Either boiled or roasted mutton \* or stewed or roasted veal, potatoes and one other vegetable, bread, butter and tapioca pudding or raisin pudding of either rice, bread or cracker.

*Saturday.* — Baked beans, corned beef, potatoes and one other vegetable, pickles, bread, butter and baked bread pudding.

*Sunday.* — Cold corned beef, potatoes, warmed baked beans, pickles, bread, butter and pies, the kind varying with the season.

#### SUPPER.

*Monday.* — Tea, bread, warm corn cake, butter, hard gingerbread and a relish.†

*Tuesday.* — Tea, white bread, graham bread, butter, soft gingerbread and a relish in the warm season, substituted by buckwheat cakes in the cold season.

*Wednesday.* — Tea, bread, butter, cookies and ginger snaps and a relish.

*Thursday.* — Tea, bread, butter, pie (the kind varying with the season) and cheese.

*Friday.* — Tea, bread, butter, cake (the kind varying) and a relish.

*Saturday.* — Tea, bread, butter, doughnuts and cheese.

*Sunday.* — Tea, bread, butter, cookies and ginger snaps and blanc-mange or corn starch.

*Extra.* — In the winter and spring months hulled corn at supper, once in two weeks, on Saturdays.

#### BILL OF FARE No. 2.

##### BREAKFAST.

*Monday.* — Coffee, cold corned beef, potatoes and bread.

*Tuesday.* — Coffee, cold roast beef, potatoes and bread.

*Wednesday.* — Coffee, meat stew, potatoes and warm rye and Indian corn brown bread.

*Thursday.* — Coffee, picked codfish cooked in milk, potatoes and bread.

*Friday.* — Coffee, cold corned beef or meat stew, potatoes and bread.

*Saturday.* — Coffee, hash, either of meat or fish, and bread.

*Sunday.* — Coffee, cold baked beans, potatoes and bread.

Butter is used in two halls in the morning.

##### DINNER.

*Monday.* — Roast beef, potatoes and one other vegetable,‡ boiled hominy with molasses and bread.

\* Substituted by stewed oysters in winter and spring, with some kind of roasted meat for those who prefer it.

† This term, used for the want of better, includes dried beef, berries, baked apples, apple sauce, and canned fruits, all of which are supplied, and each according to the season.

‡ Except two months in the spring.

*Tuesday.*—Vegetable soup, potatoes and one other vegetable,\* baked Indian pudding† and bread.

*Wednesday.*—Boiled fresh fish with drawn-butter sauce, potatoes and one other vegetable,\* boiled hasty pudding with molasses and bread.

*Thursday.*—Vegetable soup, potatoes, cabbage or some other vegetable, boiled rice with molasses‡ and bread.

*Friday.*—Boiled codfish with drawn-butter sauce, potatoes, beets or some other vegetable, boiled hasty pudding with molasses and bread.

• *Saturday.*—Hot baked beans, potatoes, baked Indian or bread pudding, pickles and bread.

*Sunday.*—Cold corned beef, potatoes, pies (the kind varying with the season) and bread.

#### SUPPER.

*Monday.*—Tea, bread and butter.

*Tuesday.*—Tea, bread, butter and soft gingerbread.

*Wednesday.*—Tea, bread, butter and some kind of relish.

*Thursday.*—Tea, bread and butter.

*Friday.*—Tea, bread, butter and soft gingerbread.

*Saturday.*—Tea, bread and butter.

*Sunday.*—Tea, bread and butter.

#### EXTRAS.

In August and September these tables are furnished at supper with either berries, tomatoes or baked apples, as many as five times a week.

In four halls, sauce, of either fresh or dried apples, is furnished as often as three times a week for the rest of the year.

#### EXTRAS FOR THE WHOLE HOUSEHOLD.

All persons have roasted turkey at dinner on Thanksgiving Day, and either turkey or chicken on one other day in the year.

From four to five bushels of green sweet corn, in the ear, is consumed in its season, daily, with the exception of Sunday.

Tomatoes, cucumbers and melons are furnished in liberal quantities in their season.

In the spring, cowslips and dandelions are largely used as greens, and horseradish as a condiment.

During eight months of the year, a barrel of apples is distributed, daily, among the patients.

Beef tea, chicken broth, mutton broth, scalded milk, arrow-root gruel, oatmeal gruel, milk punch, cracked wheat, oatmeal porridge, dry toast, milk toast, toast with dropped egg and boiled eggs, for invalids and all who are not able to take the regular fare.

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\* Except two months in the spring.

† All baked puddings for the whole household are made with milk.

‡ Maple syrup is furnished, in place of molasses, three or four times in the spring.

# 2. — Monthly Admissions, Discharges and Averages.

MONTHS.	ADMISSIONS.			DISCHARGES.			DEATHS.			DAILY AVERAGE OF PATIENTS IN THE HOUSE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
<b>1892.</b>												
October, . . . . .	4	6	10	11	9	20	5	2	7	236.32	242.87	479.19
November, . . . . .	12	5	17	5	3	8	1	1	2	232.2	242.36	474.56
December, . . . . .	5	10	15	2	4	6	3	1	4	236.55	247.	483.55
<b>1893.</b>												
January, . . . . .	11	3	14	3	20	23	3	1	4	239.29	242.03	481.32
February, . . . . .	8	3	11	6	1	7	3	3	6	241.64	228.78	470.42
March, . . . . .	7	6	13	5	6	11	1	—	1	241.32	229.42	470.74
April, . . . . .	10	8	18	7	4	11	—	—	—	242.566	231.266	473.83
May, . . . . .	12	8	20	8	—	8	1	2	3	244.13	236.71	480.84
June, . . . . .	8	10	18	6	4	10	1	3	4	247.33	239.6	486.93
July, . . . . .	3	4	7	3	4	7	1	—	1	248.45	242.74	491.19
August, . . . . .	4	7	11	7	2	9	—	3	3	244.32	241.29	485.61
September, . . . . .	7	8	15	12	9	21	1	1	2	242.23	242.8	485.03
Total of cases, . . . . .	91	78	169	75	66	141	20	17	37	—	—	—
Total of persons, . . . . .	89	77	166	73	65	138	20	17	37	—	—	—
Daily average, . . . . .	—	—	—	—	—	—	—	—	—	241.36	238.90	480.26

\* For Table No. 1, see superintendent's report.

*3. — Received on First and Subsequent Admissions.*

NUMBER OF THE ADMISSION.	CASES ADMITTED.			TIMES PREVIOUSLY RECOVERED.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	75	54	129	—	—	—
Second, . . . . .	11	15	26	4	5	9
Third, . . . . .	4	6	10	6	4	10
Fourth, . . . . .	1	3	4	3	4	7
Total of cases, . . . .	91	78	169	13	13	26
Total of persons, . . .	89	77	166	8	10	18

*4. — Relations to Hospital of Persons Admitted.*

HOSPITAL RELATIONS.	Males.	Females.	Totals.
Never before in any hospital for insane, . . .	74	51	125
Former inmates of this hospital only, . . .	14	19	33
of other hospitals only, . . .	1	3	4
of this and other hospitals, . . .	—	4	4
Total of persons, . . . . .	89	77	166

5. — *Nativity and Parentage of Persons Admitted.*

PLACES OF NATIVITY.	PATIENTS.			PARENTS.					
				MALES.		FEMALES.		TOTALS.	
	Ma.	Fe.	Tot.	Fa.	Mo.	Fa.	Mo.	Fa.	Mo.
Maine, . . . . .	—	1	1	—	—	—	1	—	1
Vermont, . . . . .	5	1	6	3	1	1	2	4	3
New Hampshire, . . . . .	—	—	—	—	—	2	1	2	1
Massachusetts, . . . . .	35	32	67	19	22	19	17	38	39
Connecticut, . . . . .	3	2	5	3	3	1	1	4	4
Rhode Island, . . . . .	1	1	2	—	1	—	—	—	1
New York, . . . . .	11	6	17	7	8	2	4	9	12
New Jersey, . . . . .	—	1	1	1	—	—	—	1	—
Iowa, . . . . .	1	—	1	—	—	—	—	—	—
Tennessee, . . . . .	—	—	—	1	—	—	—	1	—
Kentucky, . . . . .	1	—	1	—	—	—	—	—	—
Canada, . . . . .	4	1	5	7	7	1	1	8	8
Nova Scotia, . . . . .	—	—	—	—	1	—	—	—	1
Newfoundland, . . . . .	—	1	1	—	—	1	1	1	1
England, . . . . .	3	3	6	5	4	6	5	11	9
Ireland, . . . . .	18	19	37	32	31	24	24	56	55
Scotland, . . . . .	—	4	4	—	—	7	6	7	6
Wales, . . . . .	1	—	1	1	1	—	—	1	1
Germany, . . . . .	2	1	3	3	3	3	3	6	6
Italy, . . . . .	1	1	2	1	1	1	1	2	2
Hungary, . . . . .	—	1	1	—	—	1	1	1	1
Russia, . . . . .	2	—	2	1	1	—	—	1	1
Japan, . . . . .	1	—	1	1	1	—	—	1	1
Sweden, . . . . .	—	1	1	—	—	1	1	1	1
Unknown, . . . . .	—	1	1	4	4	7	8	11	12
Totals, . . . . .	89	77	166	89	89	77	77	166	166

6. — *Residence of Persons Admitted.*

PLACES.	Males.	Females.	Totals.
Hampshire County, . . . . .	21	14	35
Hampden County, . . . . .	46	32	78
Berkshire County, . . . . .	16	17	33
Franklin County, . . . . .	6	14	20
Totals, . . . . .	89	77	166
Cities or towns,* . . . . .	48	39	87
Country districts, . . . . .	41	38	79
Totals, . . . . .	89	77	166

\* Containing not less than 10,000 inhabitants.

## 7.—Civil Condition of Persons Admitted.

NUMBER OF THE ADMISSION.	UNMARRIED.			MARRIED.			WIDOWED.			DIVORCED.			TOTAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . .	32	22	54	36	25	61	6	7	13	1	-	1	75	54	129
Second, . . . .	5	2	7	3	10	13	1	2	3	-	-	-	9	14	23
Third, . . . .	2	1	3	2	4	6	-	1	1	-	-	-	4	6	10
Fourth, . . . .	1	-	1	-	3	3	-	-	-	-	-	-	1	3	4
Totals, . . . .	40	25	65	41	42	83	7	10	17	1	-	1	89	77	166

## 8.—Occupation of Persons Admitted.

## MALES.

Agent, . . . . .	1	Leather cutter, . . . . .	1
Book-keeper, . . . . .	1	Mechanic, . . . . .	1
Box maker, . . . . .	1	Machinists, . . . . .	3
Blacksmiths, . . . . .	2	Mill operatives, . . . . .	8
Bartenders, . . . . .	2	Merchants, . . . . .	5
Butcher, . . . . .	1	Photographer, . . . . .	1
Carpenters, . . . . .	3	Painters, . . . . .	2
Canvasser, . . . . .	1	Printer, . . . . .	1
Druggist, . . . . .	1	Papermaker, . . . . .	1
Electrical engineer, . . . . .	1	Pulman car porter, . . . . .	1
Employee in cutlery factory, . . . . .	1	Salesman, . . . . .	1
Farmers, . . . . .	13	Tinsmiths, . . . . .	2
Gardener, . . . . .	1	Whip-lash cutter, . . . . .	1
Hostler, . . . . .	1	Wood turner, . . . . .	1
Harness maker, . . . . .	1	None, . . . . .	6
Jeweller, . . . . .	1		
Laborers, . . . . .	22	Totals, . . . . .	89

## FEMALES.

Button maker, . . . . .	1	Hat braider, . . . . .	1
Cook, . . . . .	1	Mill operatives, . . . . .	5
Domestics, . . . . .	10	Matron in hotel, . . . . .	1
Dressmakers, . . . . .	3	Milliner, . . . . .	1
Housework, . . . . .	7	None, . . . . .	11

## WIFE OF

Book-binders, . . . . .	2	Hack driver, . . . . .	1
Button maker, . . . . .	1	Inspector of water works, . . . . .	1
Carpenter, . . . . .	1	Laborer, . . . . .	10
Clock repairer, . . . . .	1	Mechanic, . . . . .	1
Cigar maker, . . . . .	1	Merchant, . . . . .	1
Clergyman, . . . . .	1	Mill operative, . . . . .	5
Calico engraver, . . . . .	1	Painter, . . . . .	1
Clerk, . . . . .	1	Shoe dealer, . . . . .	1
Conductor, . . . . .	1	Teacher, . . . . .	1
Farmer, . . . . .	2		
Foundryman, . . . . .	1	Totals, . . . . .	77
Grocer, . . . . .	1		







10. — *Record of Cases Admitted within the Year.*

PATIENTS.	INSANE.			HABITUAL DRUNKARDS.			NOT INSANE.			AGGREGATE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Admitted, . . . . .	91	78	169	-	-	-	-	-	-	91	78	169
Discharged recovered, . . . . .	16	5	21	-	-	-	-	-	-	16	5	21
much improved, . . . . .	4	5	9	-	-	-	-	-	-	4	5	9
improved, . . . . .	3	4	7	-	-	-	-	-	-	3	4	7
not improved, . . . . .	10	2	12	-	-	-	-	-	-	10	2	12
not insane, . . . . .	-	-	-	-	-	-	1	-	1	1	-	1
Died, . . . . .	6	5	11	-	-	-	-	-	-	6	5	11
Remaining Sept. 30, 1893, . . . . .	50	57	107	-	-	-	-	-	-	50	57	107
Number likely to recover or improve, . . . . .	15	18	33	-	-	-	-	-	-	15	18	33

## 11.—Ages of Insane at First Attack, Admission and Death.

AGES.	PERSONS FIRST ADMITTED TO ANY HOSPITAL.						PERSONS DIED.					
	AT FIRST ATTACK.			WHEN ADMITTED.			AT FIRST ATTACK.			AT TIME OF DEATH.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . . .	-	-	-	-	-	-	-	-	-	-	-	-
15 years and less, . .	1	1	2	-	-	-	-	-	-	-	-	-
From 15 to 20 years, . .	3	3	6	3	2	5	2	-	2	-	-	-
20 to 25 years, . .	7	3	10	8	5	13	1	-	1	-	-	-
25 to 30 years, . .	3	3	6	8	2	10	1	-	1	2	-	2
30 to 35 years, . .	1	12	13	8	13	21	1	-	1	1	-	1
35 to 40 years, . .	6	6	12	8	9	17	2	2	4	2	-	2
40 to 50 years, . .	10	5	15	14	8	22	-	6	6	1	4	5
50 to 60 years, . .	3	6	9	8	6	14	2	2	4	2	2	4
60 to 70 years, . .	2	1	3	3	3	6	3	4	7	3	7	10
70 to 80 years, . .	7	2	9	10	2	12	4	2	6	6	3	9
Over 80 years, . . . .	1	-	1	3	1	4	1	-	1	3	1	4
Unknown, . . . . .	29	9	38	-	-	-	3	1	4	-	-	-
Not insane, . . . . .	1	-	1	1	-	1	-	-	-	-	-	-
Total of persons, . .	74	51	125	74	51	125	20	17	37	20	17	37
Mean ages, . . . . .	25.79	29.66	27.37	41.78	40.72	41.35	38.3	50.05	43.70	60.4	60.41	60.4

12. — *Reported Duration of Disease before Last Admission.*

PREVIOUS DURATION.	FIRST ADMISSION TO ANY HOSPITAL.			ALL OTHER ADMISSIONS.			TOTAL.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
Congenital, . . .	-	-	-	-	-	-	-	-	-
Under 1 month, . .	14	11	25	2	2	4	16	13	29
From 1 to 3 months, .	6	4	10	2	4	6	8	8	16
3 to 6 months, .	7	6	13	-	1	1	7	7	14
6 to 12 months, .	6	8	14	3	1	4	9	9	18
1 to 2 years, . .	10	3	13	3	2	5	13	5	18
2 to 5 years, . .	9	11	20	1	4	5	10	15	25
5 to 10 years, . .	3	1	4	-	4	4	3	5	8
10 to 20 years, .	1	2	3	1	4	5	2	6	8
Over 20 years, . . .	3	-	3	1	3	4	4	3	7
"Years," . . . . .	3	2	5	1	1	2	4	3	7
Not insane, . . . .	1	-	1	-	-	-	1	-	1
Unknown, . . . . .	11	3	14	3	1	4	14	4	18
Total of cases, . .	74	51	125	17	27	44	91	78	169
Total of persons, .	74	51	125	15	26	41	89	77	166
Average in years, .	4.90	1.98	3.71	4.64	5.59	2.98	4.85	3.23	3.51

13. — Form of Mental Disease in Cases Admitted or Discharged, with Condition on Discharge.

FORM OF DISEASE.	CASES ADMITTED.			CASES DISCHARGED.												AGGREGATE.		
				RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.		
	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.
A. — Insane: —																		
Epilepsy, . . . . .	7	1	8	—	—	—	1	—	1	—	—	—	4	—	—	2	—	—
General paralysis, . . . . .	3	13	16	5	3	8	4	6	10	3	7	10	1	1	2	1	1	2
Mania, chronic, . . . . .	11	10	21	—	1	1	2	1	1	—	—	—	7	8	15	14	17	31
recurrent, . . . . .	1	4	5	—	—	—	1	1	2	—	—	—	—	—	—	—	—	—
puerperal, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<i>a potu</i> , . . . . .	3	—	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Melancholia, acute, . . . . .	14	22	36	6	3	9	1	4	5	3	2	5	2	2	4	10	14	24
chronic, . . . . .	2	6	8	1	1	2	1	1	2	2	1	3	—	—	—	3	6	9
recurrent, . . . . .	—	1	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
senile, . . . . .	—	2	2	—	—	—	—	—	—	—	—	—	1	—	1	—	—	—
Dementia, primary, . . . . .	—	2	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
secondary, . . . . .	6	9	15	1	—	1	—	—	—	1	6	7	3	7	10	2	16	23
senile, . . . . .	7	3	10	—	—	—	—	—	—	—	—	—	—	—	—	4	3	7
organic, . . . . .	6	6	12	—	—	—	—	—	—	—	—	—	—	—	—	4	3	7
Primary delusional insanity, . . . . .	3	6	9	—	—	—	1	—	1	—	—	—	1	—	1	1	1	2
Chronic delusional insanity, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Toxic insanity, . . . . .	9	2	11	6	2	8	—	—	—	2	3	5	1	3	4	4	6	10
Traumatic insanity, . . . . .	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—
Moral insanity, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Congenital mental deficiency, . . . . .	8	—	8	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2
B. — Habitual drunkards, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
C. — Not insane, . . . . .	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total of cases, . . . . .	91	78	169	20	11	31	11	15	26	20	18	38	23	22	45	20	17	37
Total of persons, . . . . .	89	77	166	20	11	31	10	14	24	20	18	38	22	22	44	20	17	37

14. — Discharges, Classified by Admissions and Results.

NUMBER OF THE ADMISSION.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			DIED.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
First, . . . . .	14	10	24	8	10	18	17	13	30	16	15	31	18	13	31	77	61	138
Second, . . . . .	4	1	5	2	3	5	1	4	5	4	5	9	2	4	6	13	17	30
Third, . . . . .	1	—	1	1	1	2	—	1	1	1	2	3	—	—	—	3	4	7
Fourth, . . . . .	1	—	1	—	1	1	—	—	—	—	—	—	—	—	—	1	1	2
Fifth, . . . . .	—	—	—	—	—	—	1	—	1	—	—	—	—	—	—	1	—	1
Total of cases, . . . . .	20	11	31	11	15	26	19	18	37	21	22	43	20	17	37	95	88	178
Total of persons, . . . . .	20	11	31	10	14	24	19	18	37	20	22	42	20	17	37	93	82	175

15. — *Causes of Death.*

CAUSES.	INSANE.			TOTALS.		
	Males.	Females.	Totals.	Males.	Females.	Totals.
<b>Nervous system : —</b>						
Exhaustion of mania, acute, . . .	1	—	1	1	—	1
chronic, . . .	1	—	1	1	—	1
toxic, . . .	—	1	1	—	1	1
melancholia, acute, . . .	—	1	1	—	1	1
chronic, . . .	2	—	2	2	—	2
dementia, secondary, . . .	—	2	2	—	2	2
senile, . . .	2	—	2	2	—	2
Organic brain disease, . . . . .	—	1	1	—	1	1
Paralysis, . . . . .	1	2	3	1	2	3
Paresis, . . . . .	2	—	2	2	—	2
Epilepsy, . . . . .	2	2	4	2	2	4
Apoplexy, . . . . .	1	2	3	1	2	3
<b>Respiratory system : —</b>						
Phthisis, . . . . .	2	1	3	2	1	3
Pneumonia, . . . . .	—	1	1	—	1	1
<b>General : —</b>						
Bright's disease, . . . . .	1	1	2	1	1	2
Pyæmia, . . . . .	1	—	1	1	—	1
Dysentery, . . . . .	—	1	1	—	1	1
Suicide, by hanging, . . . . .	—	2	2	—	2	2
drowning, . . . . .	1	—	1	1	—	1
Old age, . . . . .	3	—	3	3	—	3
Totals, . . . . .	20	17	37	20	17	37

## 16. — Recoveries, classified by Duration of Disease and of Treatment.

PERIOD.	LAST ATTACK.						ALL ATTACKS.					
	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE DURATION FROM THE ATTACK.			WHOLE KNOWN PERIOD OF MENTAL DISEASE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane: —												
Congenital,	.	.	.	.	.	.	.	.	.	.	.	.
Under 1 month,	.	.	.	.	.	.	.	.	.	.	.	.
From 1 to 3 months,	9	6	15	11	2	13	3	3	6	1	1	2
3 to 6 months,	2	2	4	6	3	9	8	3	11	6	3	9
6 to 12 months,	1	2	3	3	3	6	2	3	5	4	3	7
1 to 2 years,	—	—	—	—	2	2	1	1	2	1	1	2
2 to 5 years,	—	—	—	—	1	1	1	1	2	—	—	—
5 to 10 years,	1	1	2	—	1	1	1	1	2	—	—	—
10 to 20 years,	1	1	2	—	—	—	—	—	—	—	—	—
Over 20 years,	6	—	6	—	—	—	6	—	5	3	—	3
Unknown,	.	.	.	.	.	.	.	.	.	.	.	.
Totals,	20	11	31	29	11	31	20	11	31	20	11	31
Average of known cases (in months),	11	64.27	28.12	3.85	11.18	6.45	14.2	76.09	38.88	12.88	31.81	20.32
										3.75	11.09	6.35

## 17. — Deaths, classified by Duration of Disease and Treatment.

PERIOD.	LAST ATTACK.						ALL ATTACKS.					
	DURATION BEFORE ADMISSION.			HOSPITAL RESIDENCE.			WHOLE KNOWN PERIOD OF MENTAL DISEASE.			WHOLE KNOWN PERIOD OF HOSPITAL RESIDENCE.		
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
A. — Insane: —												
Congenital, . . . . .	1	—	1	—	—	1	—	—	1	—	—	1
Under 1 month, . . . . .	2	2	4	5	1	6	1	1	2	5	1	6
From 1 to 3 months, . . . . .	2	4	6	3	4	7	1	1	2	2	4	6
3 to 6 months, . . . . .	1	1	2	—	1	1	—	1	3	—	1	3
6 to 12 months, . . . . .	3	2	5	2	3	5	3	3	6	2	3	5
1 to 2 years, . . . . .	3	4	7	5	4	9	6	5	11	6	3	9
2 to 5 years, . . . . .	2	2	4	2	1	3	3	3	6	2	2	4
5 to 10 years, . . . . .	2	2	4	2	2	4	3	3	6	2	3	5
10 to 20 years, . . . . .	1	—	1	—	—	1	2	2	4	—	—	2
Over 20 years, . . . . .	2	—	2	—	—	2	2	2	4	—	—	4
Unknown, . . . . .	—	—	—	—	—	—	—	—	—	—	—	—
Totals, . . . . .	20	17	37	20	17	37	20	17	37	20	17	37
Average of known cases (in months),	75.33	39.58	54.83	37.2	35.	36.18	111.11	74.64	88.35	115.16	87.82	96.18
										70.4	44.23	58.97



18. — *Annual Admissions since the Opening of the Hospital, with the Discharges and Deaths within the Official Year, and the Number of Each Year's Admissions remaining Sept. 30, 1893.*

YEARS ENDING SEPT. 30.	NEW CASES (FIRST ADMISSION).																	
	ADMITTED.			DISCHARGED AND DIED IN 1892-93.						DIED.								
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.			NOT INSANE.		
				Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,— 2 months,	99	129	228															
1858-59,	42	46	88															
1859-60,	66	91	157															
1860-61,	58	46	104															
1861-62,	51	43	94															
1862-63,	56	57	113															
1863-64,	35	30	65															
1864-65,	54	55	109															
1865-66,	66	52	118															
1866-67,	42	69	111															
1867-68,	54	71	125															
1868-69,	72	64	136															
1869-70,	80	103	183															
1870-71,	93	88	181															
1871-72,	83	86	168															
1872-73,	89	69	158															
1873-74,	86	69	155															
1874-75,	61	62	123															

[illegible]

18. — *Annual Admissions, etc.* — Concluded.

YEARS ENDING SEPT. 30.	READMITTED CASES.															REMAINING OF EACH YEAR'S ADMISSIONS SEPT. 30, 1893.					
	ADMITTED.			DISCHARGED AND DIED IN 1892-93.																	
				RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.						DIED.		
Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.				
1858,—2 mos.,	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6	1	7			
1858-59,	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1859-60,	7	3	10	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1860-61,	13	7	20	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1861-62,	13	5	18	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1862-63,	14	11	25	—	—	—	—	—	—	—	—	—	—	—	—	2	1	3			
1863-64,	12	15	27	—	—	—	—	—	—	—	—	—	—	—	—	4	1	5			
1864-65,	16	9	25	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1865-66,	9	9	18	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1866-67,	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1867-68,	14	13	27	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1868-69,	12	21	33	—	—	—	—	—	—	—	—	—	—	—	—	3	2	5			
1869-70,	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—	1	1	2			
1870-71,	16	14	30	—	—	—	—	—	—	—	—	—	—	—	—	2	6	8			
1871-72,	18	13	31	—	—	—	—	—	—	—	—	—	—	—	—	2	6	8			
1872-73,	13	10	23	—	—	—	—	—	—	—	—	—	—	—	—	4	2	6			
1873-74,	19	19	38	—	—	—	—	—	—	—	—	—	—	—	—	1	2	3			
1874-75,	14	16	30	—	—	—	—	—	—	—	—	—	—	—	—	8	4	12			
1875-76,	13	14	27	—	—	—	—	—	—	—	—	—	—	—	—	8	—	8			
1876-77,	13	16	29	—	—	—	—	—	—	—	—	—	—	—	—	9	2	11			



18. — *Annual Admissions, etc.* — Concluded.

YEARS ENDING SEPT. 30.	READMITTED CASES.												REMAINING OF EACH YEAR'S ADMISSIONS SEPT. 30, 1893.		
	ADMITTED.			DISCHARGED AND DIED IN 1892-93.											
				RECOVERED.			MUCH IMPROVED.			NOT IMPROVED.					
	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.
1858,—2 mos.,	—	—	—	—	—	—	—	—	—	—	—	—	6	1	7
1858-59,	4	1	5	—	—	—	—	—	—	—	—	—	—	—	—
1859-60,	7	3	10	—	—	—	—	—	—	—	—	—	1	1	2
1860-61,	13	7	20	—	—	—	—	—	—	—	—	—	—	1	1
1861-62,	13	5	18	—	—	—	—	—	—	—	—	—	—	1	2
1862-63,	14	11	25	—	—	—	—	—	—	—	—	—	—	1	1
1863-64,	12	15	27	—	—	—	—	—	—	—	—	—	—	1	1
1864-65,	16	9	25	—	—	—	—	—	—	—	—	—	2	1	3
1865-66,	9	9	18	—	—	—	—	—	—	—	—	—	4	1	5
1866-67,	19	8	27	—	—	—	—	—	—	—	—	—	—	—	—
1867-68,	14	13	27	—	—	—	—	—	—	—	—	—	1	1	2
1868-69,	12	21	33	—	—	—	—	—	—	—	—	—	3	2	5
1869-70,	10	9	19	—	—	—	—	—	—	—	—	—	—	—	—
1870-71,	16	14	30	—	—	—	—	—	—	—	—	—	1	2	3
1871-72,	18	13	31	—	—	—	—	—	—	—	—	—	2	6	8
1872-73,	13	10	23	—	—	—	—	—	—	—	—	—	2	5	7
1873-74,	19	19	38	—	—	—	—	—	—	—	—	—	4	2	6
1874-75,	14	16	30	—	—	—	—	—	—	—	—	—	1	2	3
1875-76,	13	14	27	—	—	—	—	—	—	—	—	—	8	4	12
1876-77,	13	16	29	—	—	—	—	—	—	—	—	—	3	3	6
1877-78,	—	—	—	—	—	—	—	—	—	—	—	—	9	2	11



## 19. — Relapsed Cases Admitted in Each Year and Discharged in 1892-93.

YEARS ENDING SEPT. 30.	CASES PREVIOUSLY RECOVERED IN THIS HOSPITAL.												REMAINING SEPT. 30, 1892.					
	ADMITTED.						DISCHARGED AND DIED IN 1892-93.											
	Males.	Females.	Total.	RECOVERED.			MUCH IMPROVED.			IMPROVED.			NOT IMPROVED.					
				Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.			
1858, — 2 months,																		
1858-59,	2	—	2	—	—	—	—	—	—	—	—	—	—	—	—			
1859-60,	5	—	5	—	—	—	—	—	—	—	—	—	—	—	—			
1860-61,	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—			
1861-62,	6	2	8	—	—	—	—	—	—	—	—	—	—	—	—			
1862-63,	6	8	13	—	—	—	—	—	—	—	—	—	—	—	—			
1863-64,	6	10	16	—	—	—	—	—	—	—	—	—	—	—	—			
1864-65,	8	4	12	—	—	—	—	—	—	—	—	—	—	—	—			
1865-66,	4	8	7	—	—	—	—	—	—	—	—	—	—	—	—			
1866-67,	11	6	17	—	—	—	—	—	—	—	—	—	—	—	—			
1867-68,	8	7	15	—	—	—	—	—	—	—	—	—	—	—	—			
1868-69,	6	9	15	—	—	—	—	—	—	—	—	—	—	—	—			
1869-70,	5	4	9	—	—	—	—	—	—	—	—	—	—	—	—			
1870-71,	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—			
1871-72,	6	8	14	—	—	—	—	—	—	—	—	—	—	—	—			
1872-73,	6	5	11	—	—	—	—	—	—	—	—	—	—	—	—			
1873-74,	7	8	15	—	—	—	—	—	—	—	—	—	—	—	—			
1874-75,	2	5	7	—	—	—	—	—	—	—	—	—	—	—	—			
1875-76,	5	6	11	—	—	—	—	—	—	—	—	—	—	—	—			
1876-77,	7	8	15	—	—	—	—	—	—	—	—	—	—	—	—			

[illegible]



*20.—Showing the Results of First Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Number of persons on first admissions, . . . . .	—	—	—	2253	2155	4408
Discharged recovered, . . . . .	512	441	953	—	—	—
improved, . . . . .	605	668	1273	—	—	—
unimproved, . . . . .	431	418	849	—	—	—
not insane, . . . . .	22	13	35	—	—	—
Died, . . . . .	509	440	949	—	—	—
Remaining in the hospital Sept. 30, 1893, . . . . .	174	175	349	2253	2155	4408

*Showing the Results of Readmissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Readmitted, . . . . .	—	—	—	495	485	980
Discharged recovered, . . . . .	123	126	249	—	—	—
improved, . . . . .	145	147	292	—	—	—
unimproved, . . . . .	83	90	173	—	—	—
not insane, . . . . .	2	2	4	—	—	—
Died, . . . . .	78	53	131	—	—	—
Remaining in the hospital Sept. 30, 1893, . . . . .	64	67	131	495	485	980

*Showing the Results of Second Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Second admissions, . . . . .	—	—	—	353	332	685
Discharged recovered, . . . . .	88	69	157	—	—	—
improved, . . . . .	92	102	194	—	—	—
unimproved, . . . . .	63	66	129	—	—	—
not insane, . . . . .	1	2	3	—	—	—
Died, . . . . .	63	44	107	—	—	—
Remaining in the hospital Sept. 30, 1893, . . . . .	46	49	95	353	332	685

*Showing the Results of Third Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Third admissions, . . . . .	—	—	—	88	76	164
Discharged recovered, . . . . .	18	26	44	—	—	—
improved, . . . . .	29	21	50	—	—	—
unimproved, . . . . .	16	14	30	—	—	—
not insane, . . . . .	1	—	1	—	—	—
Died, . . . . .	12	6	18	—	—	—
Remaining in the hospital Sept. 30, 1893, . . . . .	12	9	21	88	76	164

*Showing the Results of Fourth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourth admissions, . . .	—	—	—	23	35	58
Discharged recovered, . . .	9	8	17	—	—	—
improved, . . .	7	14	21	—	—	—
unimproved, . . .	2	4	6	—	—	—
Died, . . .	2	2	4	—	—	—
Remaining in the hospital Sept. 30, 1893, . . .	8	7	10	23	35	58

*Showing the Results of Fifth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifth admissions, . . .	—	—	—	11	14	25
Discharged recovered, . . .	4	7	11	—	—	—
improved, . . .	5	4	9	—	—	—
unimproved, . . .	—	2	2	—	—	—
Died, . . .	1	—	1	—	—	—
Remaining in the hospital Sept. 30, 1893, . . .	1	1	2	11	14	25

*Showing the Results of Sixth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Sixth admissions, . . .	—	—	—	7	10	17
Discharged recovered, . . .	2	5	7	—	—	—
improved, . . .	3	3	6	—	—	—
unimproved, . . .	2	2	4	7	10	17

*Showing the Results of Seventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Seventh admissions, . . .	—	—	—	4	5	9
Discharged recovered, . . .	1	3	4	—	—	—
improved, . . .	2	—	2	—	—	—
unimproved, . . .	—	1	1	—	—	—
Died, . . .	—	1	1	—	—	—
Remaining in the hospital Sept. 30, 1893, . . .	1	—	1	4	5	9

*Showing the Results of Eighth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eighth admissions, . . .	—	—	—	2	3	5
Discharged recovered, . . .	1	2	3	—	—	—
improved, . . .	1	—	1	—	—	—
unimproved, . . .	—	1	1	2	3	5

*Showing the Results of Ninth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Ninth admissions, . . .	-	-	-	1	2	3
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	1	2	1	2	3

*Showing the Results of Tenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Tenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Eleventh Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Eleventh admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Twelfth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Twelfth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Thirteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Thirteenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Fourteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fourteenth admissions, . . .	-	-	-	1	1	2
Discharged recovered, . . .	-	1	1	-	-	-
improved, . . .	1	-	1	1	1	2

*Showing the Results of Fifteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Fifteenth admissions, . . .	-	-	-	1	1	2
Discharged improved, . . .	-	1	1	-	-	-
Remaining in the hospital Sept. 30, 1893, . . . . .	1	-	1	1	1	2

*Showing the Results of Sixteenth Admissions.*

	Males.	Females.	Totals.	Males.	Females.	Totals.
Sixteenth admissions, . . .	-	-	-	-	1	1
Discharged improved, . . .	-	1	1	-	1	1

*Showing the Results of Seventeenth Admissions.*

Seventeenth admissions, . . .	-	-	-	-	1	1
Remaining in the hospital Sept. 30, 1893, . . . . .	-	1	1	-	1	1

## 21. — Operations of the Hospital, from the Beginning, in Each Year.

	ADMITTED.			DISCHARGED AND DIED.						Whole Number of Cases in the Year.	Number of Patients at end of the Year.													
	Males.	Females.	Totals.	RECOVERED.			MUCH IMPROVED.					IMPROVED.			UNIMPROVED.			NOT INSANE.			DIED.			
				Males.	Females.	Totals.	Males.	Females.	Totals.			Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	Males.	Females.	Totals.	
1858,—2 months,	99	129	228	-	-	-	4	-	4	2	2	4	-	-	-	-	-	-	-	-	-	228	320	
1858-59, . . .	46	47	93	18	15	33	9	9	18	7	5	12	7	12	19	7	12	19	313	231				
1859-60, . . .	73	94	167	19	16	35	12	10	22	2	2	4	2	2	4	9	18	27	398	310				
1860-61, . . .	71	53	124	18	17	35	14	14	28	4	7	11	4	7	11	-	15	15	30	434	330			
1861-62, . . .	64	48	112	19	15	34	27	15	42	9	5	14	1	1	2	9	10	19	442	332				
1862-63, . . .	70	68	138	12	16	28	16	10	26	4	3	7	4	3	7	19	7	26	470	383				
1863-64, . . .	47	45	92	30	19	49	19	15	34	4	6	10	1	1	2	17	30	47	475	334				
1864-65, . . .	70	64	134	17	16	33	14	15	29	8	5	13	5	2	7	17	24	41	468	352				
1865-66, . . .	75	61	136	16	10	26	12	7	19	5	2	7	12	7	19	18	13	31	488	405				
1866-67, . . .	61	77	138	24	18	42	15	13	28	6	7	13	6	7	13	23	24	47	543	413				
1867-68, . . .	68	84	152	21	19	40	22	27	49	5	7	12	5	7	12	25	18	43	565	421				
1868-69, . . .	84	85	169	21	18	39	23	33	56	20	38	58	20	38	58	13	12	25	590	402				
1869-70, . . .	90	112	202	23	27	50	15	43	58	22	34	56	22	34	56	2	22	11	33	804	405			
1870-71, . . .	109	102	211	16	27	43	23	41	64	31	30	61	31	30	61	16	12	28	616	420				
1871-72, . . .	101	98	199	25	15	40	33	27	60	22	27	49	22	27	49	19	18	37	619	433				
1872-73, . . .	102	79	181	19	29	48	37	22	59	23	29	62	23	29	62	1	13	8	21	614	433			
1873-74, . . .	105	88	193	25	12	37	24	19	43	27	18	45	27	18	45	-	14	11	25	628	476			
1874-75, . . .	75	78	153	16	13	29	21	24	45	17	21	38	17	21	38	23	18	41	629	476				
1875-76, . . .	76	77	153	19	13	32	18	31	49	24	23	47	24	23	47	18	19	37	629	464				
1876-77, . . .	68	71	139	15	18	33	8	13	21	15	17	32	15	17	32	21	21	42	603	475				

1877-78,	.	40	86	76	7	19	26	-	-	-	17	27	44	16	13	20	-	-	-	14	9	23	551	429
1878-79,	.	63	43	106	13	13	26	-	-	-	15	13	28	11	8	14	1	1	1	14	9	23	551	429
1879-80,	.	50	58	117	16	12	23	5	7	12	11	12	23	9	10	19	2	2	2	17	12	29	550	442
1880-81,	.	57	66	123	7	13	20	6	7	13	15	15	30	6	10	16	1	-	1	16	10	26	560	463
1881-82,	.	62	62	124	13	15	28	4	9	13	7	14	21	14	13	27	-	1	1	24	14	38	587	459
1882-83,	.	73	60	147	11	17	28	9	-	9	18	15	33	21	14	35	1	1	2	17	13	30	606	469
1883-84,	.	61	75	136	9	16	25	6	11	17	16	19	35	16	20	36	3	1	4	12	13	25	605	463
1884-85,	.	66	70	136	17	12	29	4	5	9	12	17	29	10	16	26	1	2	3	16	11	27	599	476
1885-86,	.	85	98	183	10	19	29	8	2	10	23	36	59	20	23	43	1	-	1	14	12	26	659	491
1886-87,	.	72	76	148	16	8	24	5	3	8	36	31	67	21	16	37	1	2	3	13	18	31	639	469
1887-88,	.	87	79	166	23	13	36	3	6	9	25	22	47	12	17	29	2	-	2	14	17	31	635	431
1888-89,	.	98	57	155	27	15	42	6	6	12	26	40	65	35	8	43	2	1	3	18	7	25	686	446
1889-90,	.	91	79	170	18	14	32	5	9	14	17	17	34	12	5	17	1	2	3	12	9	21	616	495
1890-91,	.	82	69	141	29	16	45	7	7	14	27	26	53	18	22	40	-	-	-	19	12	31	636	453
1891-92,	.	102	75	177	16	21	37	9	10	19	13	8	21	15	8	23	3	-	3	20	9	38	630	489
1892-93,	.	91	78	169	20	11	31	11	15	26	19	18	37	21	22	43	4	-	4	20	17	37	658	490
Totals,	.	2,748	2,640	5,388	635	567	1,202	88	97	185	662	718	1,380	514	508	1,022	24	15	39	587	493	1,080	-	-

22. — *Classed Average of Patients.*

OFFICIAL YEAR.	State Patients.	Town Patients.	Private Patients.	Totals.
<i>Monthly Average.</i>				
1864-65, . . . .	225.10	48.16	69.83	343.25
1865-66, . . . .	252.16	50.58	75.58	378.33
<i>Weekly Average.</i>				
1866-67, . . . .	261.96	49.46	89.75	401.17
1867-68, . . . .	262.65	47.92	103.06	413.63
1868-69, . . . .	248.52	54.98	101.46	404.96
1869-70, . . . .	236.19	65.04	107.23	408.46
1870-71, . . . .	234.10	77.07	118.38	429.55
1871-72, . . . .	226.96	89.57	112.27	428.80
1872-73, . . . .	248.02	99.23	90.00	437.25
1873-74, . . . .	284.48	102.88	82.06	469.42
1874-75, . . . .	274.35	128.34	72.46	475.15
1875-76, . . . .	259.19	146.02	68.94	474.15
1876-77, . . . .	254.84	161.58	60.02	476.44
1877-78, . . . .	211.90	175.71	54.75	442.36
1878-79, . . . .	200.34	182.29	54.23	436.86
1879-80, . . . .	197.03	198.01	54.46	450.50
1880-81, . . . .	180.82	214.15	57.19	452.15
1881-82, . . . .	166.84	238.25	56.52	461.61
1882-83, . . . .	161.62	247.63	57.58	466.83
1883-84, . . . .	155.10	251.23	56.06	462.39
1884-85, . . . .	154.44	261.58	59.82	475.84
1885-86, . . . .	140.23	270.52	63.61	474.36
1886-87, . . . .	122.78	289.38	66.00	478.16
1887-88, . . . .	112.17	294.01	64.01	470.19
1888-89, . . . .	104.67	303.01	61.31	468.99
1889-90, . . . .	96.86	311.17	62.07	470.10
<i>Daily Average.</i>				
1890-91, . . . .	90.71	297.78	68.51	457.00
1891-92, . . . .	85.64	309.42	74.03	469.09
1892-93, . . . .	75.83	338.72	65.71	480.26

*23. — Monthly Consumption of Gas.*

MONTHS.								Cubic Feet.	Daily Average.
<b>1892.</b>									
October,	.	.	.	.	.	.	.	55,200	1,780.64
November,	.	.	.	.	.	.	.	64,800	2,160.00
December,	.	.	.	.	.	.	.	80,200	2,587.09
<b>1893.</b>									
January,	.	.	.	.	.	.	.	73,500	2,370.96
February,	.	.	.	.	.	.	.	62,300	2,225.00
March,	.	.	.	.	.	.	.	57,100	1,841.93
April,	.	.	.	.	.	.	.	52,980	1,766.00
May,	.	.	.	.	.	.	.	32,100	1,035.48
June,	.	.	.	.	.	.	.	24,150	805.00
July,	.	.	.	.	.	.	.	23,375	754.03
August,	.	.	.	.	.	.	.	31,050	1,001.61
September,	.	.	.	.	.	.	.	46,550	1,551.66
Totals,	.	.	.	.	.	.	.	603,305	1,652.89



24. — Supplies for the Several Departments for the Year 1892-93.

	Sheets.	Pillow Cases.	Bed Spreads.	Blankets.	Bed Ticks.	Pillow Ticks.	Towels.	Curtains.	Wash Bowls.	Ewers.	Chamberers.	Mirrors.	Hair Brushes.	Combs.	Carpet Strips.	Plates.	Cups.	Saucers.	Tumblers.	Mugs.	Bowls.	Pitchers.	Knives.	Forks.	Vegetable Dishes.
<i>Men's Department.</i>																									
Upper 1st Hall.	20	18	4	4	7	2	18	—	—	—	2	6	1	—	—	—	6	12	6	—	—	—	—	—	—
2d Hall.	28	22	4	8	2	2	12	—	—	—	11	—	4	2	8	18	18	24	18	12	12	6	—	—	—
3d and 4th Halls.	54	30	8	12	13	10	6	6	—	—	—	9	2	3	8	12	12	12	12	6	3	3	6	4	4
Middle 1st Hall.	40	16	8	12	12	22	12	6	—	—	—	—	4	2	8	18	12	12	6	12	1	1	6	12	—
2d Hall.	42	38	10	14	5	10	6	—	—	—	38	1	1	7	20	12	38	30	12	—	1	6	4	5	—
3d and 4th Halls.	46	32	12	20	10	2	24	7	—	—	15	—	5	3	13	16	34	18	2	—	6	4	1	—	—
Lower 1st Hall.	—	12	—	6	8	12	6	—	—	—	10	—	2	5	16	—	18	6	—	—	—	1	3	—	—
2d Hall.	74	20	6	14	10	16	12	8	—	—	22	—	2	6	16	—	18	6	—	—	—	7	—	—	—
3d and 4th Halls.	64	34	12	36	—	6	18	—	—	—	24	1	3	3	16	6	54	24	2	—	4	6	—	—	—
<i>Women's Department.</i>																									
Upper 1st Hall.	12	—	8	3	—	—	30	—	—	1	4	—	—	—	2	36	36	84	48	6	12	3	9	—	—
2d Hall.	36	36	24	18	2	—	80	12	—	1	6	1	—	32	—	—	12	12	24	—	6	6	2	6	—
3d and 4th Halls.	72	12	2	2	2	1	12	4	—	1	6	—	—	20	—	24	36	24	12	—	6	9	5	—	—
Middle 1st Hall.	84	40	20	4	—	1	64	—	2	3	12	1	—	14	—	36	24	12	60	—	48	6	2	—	—
2d Hall.	120	72	18	25	1	15	102	—	1	1	18	—	—	58	10	18	36	24	24	—	80	1	2	—	1
3d and 4th Halls.	108	12	26	24	—	6	60	48	1	1	18	—	1	82	5	12	24	6	12	—	80	6	4	—	1
Lower 1st Hall.	24	60	12	—	—	15	18	—	—	—	12	—	2	40	10	—	24	6	6	—	18	3	—	—	—
2d Hall.	120	84	—	36	14	6	36	—	1	2	30	1	—	48	—	—	12	12	6	—	12	2	—	—	—
3d and 4th Halls.	72	24	—	36	17	15	36	—	—	—	1	—	1	1	18	36	18	18	30	—	18	6	12	6	11
Kitchen.	—	—	—	—	—	6	6	2	—	—	3	5	—	—	—	180	—	—	—	—	—	7	—	—	—
Rear.	32	19	18	20	—	6	28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4	—	—	—
Centre.	8	10	—	—	—	—	9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aggregates.	1007	591	178	288	101	129	503	91	5	8	259	16	23	350	130	436	408	384	251	18	177	75	47	35	13

## 24. — Supplies for the Several Departments for the Year 1892-93 — Concluded.

	Spoons.	Table Spreads.	Napkins.	Tin Plates.	Tin Cups.	Iron Spoons.	Dish Towels.	Rollers.	Wash Basins.	Brooms.	Soap, Pounds.	Sand Soap.	Whisks.	Dust Brushes.	Scrub Brushes.	Dust Pans.	Mops.	Pails.	Spittoons.	Blacking.	Shoe Brushes.	Spools Thread.	Papers Needles.	Papers Pins.	Clothes Bags.
<i>Men's Department.</i>																									
Upper 1st Hall,	6	2	12	—	—	—	24	6	—	13	40	3	6	1	1	—	—	—	—	—	1	—	—	—	—
2d Hall,	—	—	—	—	—	—	42	30	—	19	42	7	7	4	2	3	1	2	—	4	3	1	—	—	—
3d and 4th Halls,	12	—	—	—	—	—	12	12	—	18	54	7	6	2	1	—	4	2	—	11	3	—	—	—	—
Middle 1st Hall,	—	—	—	—	—	—	12	12	—	11	72	31	3	3	3	1	7	5	—	8	1	—	—	—	—
2d Hall,	74	1	—	—	—	—	24	30	—	33	102	39	4	2	3	1	5	6	—	13	1	—	—	—	—
3d and 4th Halls,	48	—	—	—	—	—	24	24	2	36	100	21	2	3	3	2	10	7	—	15	—	—	—	—	—
Lower 1st Hall,	—	—	—	—	—	—	—	6	—	11	24	—	2	2	3	2	—	—	—	6	—	—	—	—	—
2d Hall,	18	1	—	—	—	—	12	30	—	34	82	14	2	1	3	2	16	4	—	13	1	—	—	—	—
3d and 4th Halls,	12	1	—	—	—	—	24	18	—	41	76	25	2	3	3	2	18	6	—	9	—	—	—	—	—
<i>Women's Department.</i>																									
Upper 1st Hall,	6	—	12	—	—	—	—	—	—	9	64	3	3	1	1	—	2	3	—	—	—	—	—	—	—
2d Hall,	—	—	—	—	—	—	—	—	—	22	86	4	1	4	1	4	3	1	—	—	—	—	—	—	—
3d and 4th Halls,	12	—	—	—	—	—	12	6	—	14	127	1	4	—	—	—	5	—	—	—	—	—	—	—	—
Middle 1st Hall,	—	—	—	—	—	—	—	—	—	11	84	2	4	3	1	3	16	4	—	—	—	—	—	—	—
2d Hall,	6	—	—	—	—	—	6	6	—	31	100	3	1	2	1	8	14	4	—	—	—	—	—	—	—
3d and 4th Halls,	12	—	—	—	—	—	—	—	—	21	112	8	3	2	—	—	3	6	—	—	—	—	—	—	—
Lower 1st Hall,	12	—	—	—	—	—	—	—	—	16	108	9	1	4	—	—	28	2	—	—	—	—	—	—	—
2d Hall,	12	—	—	—	—	—	12	—	—	28	134	5	2	2	1	4	7	8	—	—	—	—	—	—	—
3d and 4th Halls,	12	—	—	—	—	—	24	12	—	17	114	12	3	2	1	3	19	1	—	—	—	—	—	—	—
Kitchen,	—	—	—	—	—	—	—	—	—	42	185	6	13	2	7	3	8	21	—	—	—	—	—	—	—
Boat,	—	—	—	—	—	—	24	6	—	76	102	6	2	3	4	—	1	—	—	—	—	—	—	—	—
Centre,	—	—	—	—	—	—	—	—	—	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aggregates,	219	23	48	30	108	244	246	186	11	512	1908	199	62	47	29	34	143	91	6	87	13	199	46	124	12

25. — *Days' Work by Patients.*

MONTHS.	FARM.	KITCHEN.			SEWING-ROOM.	LAUNDRY.		
	Men.	Men.	Women.	Totals.	Women.	Men.	Women.	Totals.
<b>1892.</b>								
October, . .	671	124	169	293	278	25	353	378
November, . .	642	120	185	305	275	24	366	390
December, . .	654	124	161	285	285	24	392	416
<b>1893.</b>								
January, . .	605	124	151	275	318	25	409	434
February, . .	482	112	152	264	288	23	336	359
March, . .	547	124	158	282	313	37	402	439
April, . .	529	120	117	237	234	42	335	377
May, . .	591	124	191	315	252	28	410	438
June, . .	597	120	189	309	316	52	379	431
July, . .	653	124	162	286	395	47	398	445
August, . .	634	124	163	287	252	50	389	439
September, . .	611	120	151	271	247	47	389	436
Totals, . .	7216	1460	1949	3409	3453	424	4558	4982

*26.—List of Articles made in the Sewing-room.*

Dresses, . . . . .	278	Dish towels, . . . . .	468
Skirts, . . . . .	152	Sheets, . . . . .	916
Shirts, . . . . .	262	Pillow cases, . . . . .	568
Waists, . . . . .	10	Spreads hemmed, . . . . .	163
Night-dresses, . . . . .	48	Table cloths, . . . . .	34
Drawers, . . . . .	146	Napkins, . . . . .	30
Chemise, . . . . .	130	Hats trimmed, . . . . .	22
Aprons, . . . . .	235	Pillow ticks, . . . . .	120
Caps, . . . . .	353	Mattress ticks, . . . . .	119
Suspenders, . . . . .	169	Clothes bags, . . . . .	17
Camisoles, . . . . .	24	Yards carpeting made, . . . . .	252
Curtains, . . . . .	14	Carpet strips hemmed, . . . . .	153
Roller towels, . . . . .	175	Articles repaired, . . . . .	17,355

*27.—Upholstery done in the Year.*

Hair mattresses made, new materials, . . . . .	23
Hair mattresses made, new ticks, . . . . .	87
Hair mattresses made, old materials, . . . . .	50
Hair pillows made, new materials, . . . . .	22
Hair pillows made, old materials, . . . . .	186

*28. — Annual Cost of Gas.*

YEAR.	Cost of Gas.	Average Number of Patients.	Cost per Patient.
1860-61, . . . . .	\$2,030 39	314.26	\$6 46
1861-62, . . . . .	2,085 29	313.80	6 64
1862-63, . . . . .	2,109 02	355.63	5 93
1863-64, . . . . .	2,069 79	357.63	5 78
1864-65, . . . . .	1,653 05	342.40	4 82
1865-66, . . . . .	1,107 98	376.35	2 94
1866-67, . . . . .	1,056 16	401.03	2 63
1867-68, . . . . .	1,022 51	413.41	2 47
1868-69, . . . . .	903 92	405.10	2 23
1869-70, . . . . .	915 30	408.83	2 23
1870-71, . . . . .	1,043 99	421.90	2 47
1871-72, . . . . .	980 94	428.72	2 28
1872-73, . . . . .	1,006 61	437.23	2 30
1873-74, . . . . .	1,066 74	469.54	2 27
1874-75, . . . . .	1,012 63	475.35	2 13
1875-76, . . . . .	1,089 82	474.21	2 29
1876-77, . . . . .	1,033 59	476.16	2 17
1877-78, . . . . .	1,066 02	442.43	2 41
1878-79, . . . . .	1,033 05	436.73	2 37
1879-80, . . . . .	954 00	450.51	2 10
1880-81, . . . . .	949 65	451.79	2 10
1881-82, . . . . .	919 13	461.66	2 00
1882-83, . . . . .	992 10	466.76	2 10
1883-84, . . . . .	1,031 55	463.05	2 23
1884-85, . . . . .	912 49	475.94	1 92
1885-86, . . . . .	882 90	474.40	1 86
1886-87, . . . . .	854 97	478.54	1 97
1887-88, . . . . .	901 74	470.25	1 91
1888-89, . . . . .	955 51	469.10	2 04
1889-90, . . . . .	977 17	470.5	2 07
1890-91, . . . . .	1,016 50	457.	2 22
1891-92, . . . . .	1,083 19	469.09	2 31
1892-93, . . . . .	1,068 86	480.26	2 22

29. — *Trustees of the Northampton Lunatic Hospital.*

NAMES.	Residence.	When app'ted.	Service ended.	From What Cause
Charles E. Forbes,* . .	Northampton, . .	1856	1857	Term expired.
Lucien C. Boynton,* . .	Uxbridge, . . . .	1856	1858	Term expired.
Eliphalet Trask,* . .	Springfield, . . .	1856	1875	Term expired.
John C. Russell,* . . .	Great Barrington, .	1856	1859	Resigned.
Horace Lyman, . . . .	Greenfield, . . . .	1856	1857	Removed.
Charles Smith,* . . . .	Northampton, . . .	1857	1860	Resigned.
Luther V. Bell,* . . . .	Somerville, . . . .	1857	1859	Resigned.
Zebina L. Raymond,* . .	Greenfield, . . . .	1858	1859	Resigned.
Franklin Ripley,* . . .	Greenfield, . . . .	1859	1860	Died in office.
Edward Dickinson,* . .	Amherst, . . . . .	1859	1864	Resigned.
Walter Laffin,* . . . .	Pittsfield, . . . .	1859	1866	Term expired.
Silas M. Smith,* . . . .	Northampton, . . .	1860	1863	Term expired.
Charles Allen, . . . .	Greenfield, . . . .	1860	1861	Resigned.
Alfred R. Field,* . . . .	Greenfield, . . . .	1861	1864	Resigned.
Edward Hitchcock, . . .	Amherst, . . . . .	1863	1879	Resigned.
Silas M. Smith,* . . . .	Northampton, . . .	1864	1887	Died in office.
Edmund H. Sawyer,* . .	Easthampton, . . .	1864	1879	Died in office.
Henry L. Sabin,* . . . .	Williamstown, . . .	1866	1876	Term expired.
Adams C. Deane, . . . .	Greenfield, . . . .	1875	—	Still in office.
Henry W. Taft, . . . .	Pittsfield, . . . .	1876	1893	Term expired.
William M. Gaylord, . .	Northampton, . . .	1879	1883	Term expired.
Lyman D. James, . . . .	Williamsburg, . . .	1879	—	Still in office.
Christopher Merritt, . .	Springfield, . . . .	1883	1888	Term expired.
Sarah A. Woodworth, . .	Chicopee, . . . . .	1884	—	Still in office.
Sarah M. Butler, . . . .	Northampton, . . .	1884	—	Still in office.
John L. Otis, . . . . .	Florence, . . . . .	1887	1890	Resigned.
N. A. Leonard,* . . . .	Springfield, . . . .	1888	1890	Died in office.
Alvan Barrus, . . . . .	Goshen, . . . . .	1890	—	Still in office.
Elisha Morgan, . . . .	Springfield, . . . .	1890	—	Still in office.
William D. MacInnes, . .	Pittsfield, . . . . .	1893	—	Still in office.

\* Deceased.

30. — *Officers and Employees.*

Time employed, Oct. 1, 1893.

NAMES.	Years.	Months.	Days.
Edward B. Nims, M.D., superintendent, . . . . .	24	9	16
John A. Houston, M.D., assistant physician, . . . . .	4	—	7
Charles M. Holmes, M.D., assistant physician, . . . . .	4	2	21
Jane R. Baker, M.D., female physician, . . . . .	1	1	28
Lewis F. Babbitt, clerk, . . . . .	1	11	19
John Mercier, farmer, . . . . .	26	2	—
Danford Morse, engineer, . . . . .	28	6	9
Robert H. Gallivan, supervisor, . . . . .	20	5	13
Lucy A. Gilbert, supervisor, . . . . .	26	7	20
Benjamin Grant, steward, . . . . .	—	10	16
George B. Walker, baker, . . . . .	9	3	22
Bradamant Fairbanks, seamstress, . . . . .	1	8	3
Chloe L. Marks, laundress, . . . . .	1	4	—
Inez M. Field, assistant clerk, . . . . .	3	9	3
Elizabeth Bycraft, assistant supervisor, . . . . .	2	—	1
Martin Sawyer, assistant steward, . . . . .	2	—	26
Mattie Jones, assistant seamstress, . . . . .	1	10	16
Mary A. McKenzie, assistant laundress, . . . . .	2	—	16
Fannie Gilbert, assistant laundress, . . . . .	—	5	21
Myrtie A. McVeta, assistant laundress, . . . . .	—	3	5
Mary Bradley, assistant laundress, . . . . .	—	—	12
Henry W. Estey, attendant, . . . . .	11	6	7
Albertus A. Powers, attendant, . . . . .	2	—	14
Martin V. B. Vance, attendant, . . . . .	1	8	7
Samuel L. Williams, attendant, . . . . .	1	3	4
Charles J. Downey, attendant, . . . . .	1	1	4
Max A. Gerald, attendant, . . . . .	—	9	25
Walter Shippey, attendant, . . . . .	—	2	11
Leroy C. Decker, attendant, . . . . .	—	5	7
Fred P. Wilson, attendant, . . . . .	—	5	6
Willie G. Davis, attendant, . . . . .	—	4	26
Arthur Le Duc, attendant, . . . . .	—	3	27
Clarke F. Wilkinson, attendant, . . . . .	—	3	23
Allen E. Cooley, attendant, . . . . .	—	3	1
William Martin, attendant, . . . . .	—	1	17
Edward R. Cover, attendant, . . . . .	—	1	10
William Day, attendant, . . . . .	—	—	24
Delbert L. Gordon, attendant, . . . . .	—	2	17
Jeanette McLean, attendant, . . . . .	10	1	3
Cecile Riel, attendant, . . . . .	15	8	9
Jennie E. O'Brien, attendant, . . . . .	1	3	29
Mary A. Dobson, attendant, . . . . .	1	1	9
Marie A. Dutcher, attendant, . . . . .	—	5	10
Katie Rauch, attendant, . . . . .	—	4	21
Jessie Boomhower, attendant, . . . . .	—	2	25
Jennie Lilley, attendant, . . . . .	—	1	20
Delia Ryan, attendant, . . . . .	—	1	14
Helen S. Underhill, attendant, . . . . .	—	1	12
Kamilla Boeske, attendant, . . . . .	—	—	12
Margaret E. Probert, attendant, . . . . .	—	1	—

30. — *Officers and Employees* — Concluded.

NAMES.	Years.	Months.	Days.
Maud Stuart, attendant, . . . . .	—	1	—
Katie Larkin, attendant, . . . . .	—	—	12
Bridget Carey, attendant, . . . . .	—	—	6
Luella Field, night watch, . . . . .	1	4	20
Hattie Darling, centre, . . . . .	6	10	—
Abbie Larabee, centre, . . . . .	1	8	5
Louise Parker, centre, . . . . .	—	5	5
Alice A. Hawkes, farmers' dining-room, . . . . .	5	9	27
Alice Grant, cook, . . . . .	—	10	16
Mary Mangan, cook, . . . . .	4	9	6
Annie Goodwin, cook, . . . . .	—	4	3
Eda Swanson, cook, . . . . .	—	4	7
Bridget Mangan, cook, . . . . .	—	4	6
Ida M. Hebard, rear, . . . . .	—	5	13
William C. Hall, assistant engineer, . . . . .	28	—	20
Nicholas Riel, night engineer, . . . . .	17	9	25
William E. Larabee, watchman, . . . . .	1	8	15
Sifroi Belleville, carpenter, . . . . .	23	5	7
Walter Tower, carpenter, . . . . .	15	10	—
Alfred Parenteau, painter, . . . . .	28	1	18
David Mercier, coachman, . . . . .	16	7	14
Benjamin Rockwell, assistant farmer, . . . . .	26	4	—
Henry Wilson, assistant farmer, . . . . .	14	5	8
James Madden, assistant farmer, . . . . .	18	—	29
Eugene Sullivan, assistant farmer, . . . . .	18	5	—
Eugene L. Hathaway, assistant farmer, . . . . .	1	5	20
Patrick Eagan, assistant farmer, . . . . .	1	1	8
George Irwin, assistant farmer, . . . . .	—	10	10
Thomas Donahoe, assistant farmer, . . . . .	—	11	28
Xavia Dion, assistant farmer, . . . . .	—	3	17
John Kuhback, assistant baker, . . . . .	—	4	21
John Bourke, car boy, . . . . .	—	4	14
George W. Thorniley, florist, . . . . .	—	5	12





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TWENTY-SIXTH ANNUAL REPORT  
OF  
THE TRUSTEES  
OF THE  
STATE LUNATIC HOSPITAL  
AT NORTHAMPTON,  
FOR THE YEAR ENDING SEPTEMBER 30, 1881.

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